

## PAST IASE CONFERENCES

**SRTL-5**  
**THE FIFTH INTERNATIONAL RESEARCH FORUM ON STATISTICAL**  
**REASONING, THINKING, AND LITERACY**  
 Coventry, UK, August 11 - 17, 2007

**Reasoning about Statistical Inference:**  
**Innovative Ways of Connecting Chance and Data.**



The fifth research forum in a series of

international research forums on statistical reasoning, thinking and literacy was held at the Centre for New Technologies Research in Education of the University of Warwick, England. This particular gathering of researchers played an important role in advancing our understanding of the richness and depth of reasoning about informal inference, a natural development of previous foci on variability and distribution. The forum was sponsored by The Royal Statistical Society (UK), The American Statistical Association (ASA) Section on Statistical Education, the Institute of Education, University of Warwick, and the School of Education, University of Leicester.

Twenty-four researchers in statistics education from seven countries shared their work, discussed important issues, and initiated collaborative projects in a stimulating and enriching environment. Sessions were held in an informal style, with a high level of interaction. With emphasis on reasoning about informal inference, a wide range of research projects were presented spanning learners of all ages, as well as teachers and practitioners in the workplace. These demonstrated an interesting diversity in research methods, theoretical approaches, and points of view. As a result of the success of this gathering, plans are already underway for the next gathering (SRTL-6) in 2009.

The research forum proved to be very productive in many ways. Progress was made towards identifying the key elements of statistical inference and in locating the range of resources that might be brought to bear in supporting engagement with those powerful ideas. Several types of scientific publications will be produced including proceedings on the Forum Website (<http://srtl.stat.auckland.ac.nz/>), papers in refereed journals, and a special issue of *Statistics Education Research Journal*, expected in 2008, with Dave Pratt and Janet Ainley as guest editors. These outcomes will all serve as a rich resource for statistics educators and researchers.

Dave Pratt (Institute of Education, University of London) and Janet Ainley (University of Leicester) led the local planning and organizing prior to the SRTL-5 gathering. Yvette Kingston, supported by Peter Johnston-Wilder and Theodosia Prodromou (all University of Warwick) ensured that the forum ran smoothly and was able to meet its objectives. Thanks to the efforts of this group, participants were able to not only enjoy each other's creative efforts during the scientific programme but also to appreciate the local culture through a variety of social events that helped to build a sense of a community amongst the researchers.

For further information please contact the SRTL co-chairs:

Joan Garfield, [jbg@umn.edu](mailto:jbg@umn.edu) and Dani Ben-Zvi, [dbenzvi@univ.haifa.ac.il](mailto:dbenzvi@univ.haifa.ac.il)

**IASE SATELLITE CONFERENCE ON  
ASSESSING STUDENT LEARNING IN STATISTICS  
Guimarães, Portugal, August 19-21, 2007**

The meeting was held on August 19-21, 2007 in Guimarães, Portugal, immediately prior to ISI-56 in Lisbon. The Satellite involved papers on many aspects of assessing student learning in statistics. Over 40 papers were presented along with a number of posters and a discussion of examination questions.

The complete proceedings, published also on CD, is freely available at  
[http://www.swinburne.edu.au/lss/statistics/IASE/CD\\_Assessment/index.htm](http://www.swinburne.edu.au/lss/statistics/IASE/CD_Assessment/index.htm)

Papers presented at the conference are also available at  
<http://www.stat.auckland.ac.nz/~iase/publications.php?show=sat07>

**ISI-56  
THE 2007 SESSION OF THE INTERNATIONAL STATISTICAL INSTITUTE  
Lisboa, Portugal, August 22 – 29, 2007**

The 56<sup>th</sup> Session of the International Statistical Institute (ISI) was held in Lisboa, Portugal. The International Association for Statistical Education (IASE) organized 10 statistics education sessions for ISI-56. It is planned that the papers presented in the IASE sponsored sessions will be available at the website:

<http://www.stat.auckland.ac.nz/~iase/publications.php>

## **FORTHCOMING IASE CONFERENCES**

### **JOINT ICMI /IASE STUDY STATISTICS EDUCATION IN SCHOOL MATHEMATICS: CHALLENGES FOR TEACHING AND TEACHER EDUCATION Monterrey, Mexico, June 30 to July 4, 2008**



The International Commission on Mathematical Instruction (ICMI, <http://www.mathunion.org/ICMI/>) and the International Association for Statistical Education (IASE, <http://www.stat.auckland.ac.nz/~iase/>) are pleased to announce the Joint ICMI /IASE Study - Statistics Education in School Mathematics: Challenges for Teaching and Teacher Education.

Following the tradition of ICMI Studies, this Study will comprise two parts: the Joint Study Conference and the production of the Joint Study book. The Joint Study Conference will be merged with the IASE 2008 Round Table Conference.

The Joint Study Conference (ICMI Study and IASE Round Table Conference) will take place at the Instituto Tecnológico y de Estudios Superiores, Monterrey, Mexico (<http://www.mty.itesm.mx/>), from June 30 to July 4, 2008. Participation in the Conference is only by invitation, based on a submitted contribution and a refereeing process. Accepted papers will be presented in the Conference and will appear in the Proceedings that will be published by ICMI and IASE as a CD-ROM and on the Internet.

The second part of the Joint Study – the Joint Study book – will be produced after the conference and will be published in the ICMI Study Series. Participation in the Joint Study Conference does not automatically assure participation in the book, since a second selection and rewriting of selected papers will be made after the conference.

More information: Carmen Batanero, [batanero@ugr.es](mailto:batanero@ugr.es)

Website: <http://www.stat.auckland.ac.nz/~iase/temp/RoundTable2008Announce.htm>

### **ICME-11 INTERNATIONAL CONGRESS ON MATHEMATICAL EDUCATION TOPIC STUDY GROUP #13 RESEARCH AND DEVELOPMENT IN THE TEACHING AND LEARNING OF PROBABILITY Monterrey, Mexico – July 6 - 13, 2008**

Probability and statistics education are relatively new disciplines. Both have only recently been introduced into main stream school curricula in many countries. While application-oriented statistics is undisputed in its relevance, discussion about probability is more ambivalent. When probability is reduced to its classical conception, mainly based on combinatorics or its formal treatment in higher mathematics, it can be seen as irrelevant, and may be abandoned to leave only the statistical element of the stochastics discipline. However, we believe that there are some powerful arguments in favour of a strong role for probability within stochastics curricula.

We invite submissions related to the following topics:

*Individuals' corner*

- Students' understanding and misunderstanding of fundamental probabilistic concepts
- Ideas of probability in young children

*Impact of technology*

- The use of technology for students' learning of probability
- Using specific software to study probability and sampling distributions
- Special issues in e-learning

*Teacher's corner*

- Teacher education on the topic of probability
- Teachers' conceptions about teaching probability

*Fundamental ideas*

- The probabilistic idea of random variable; distribution, expectation
- The central limit theorem; convergence
- Bayes' theorem and conditional probability; independence; exchangeability
- Probabilistic modelling – a probabilistic look at distributions

**TEAM CHAIRS**

Manfred Borovcnik (Austria), manfred.borovcnik@uni-klu.ac.at

Dave Pratt (U.K.), d.pratt@ioe.ac.uk

Silvia Alatorre Frenk (Mexico), alatorre@solar.sar.net

**TEAM MEMBERS**

Carmen Batanero (Spain), batanero@ugr.es

Wu Yingkang (China), ykwu@math.ecnu.edu.cn

Website: <http://tsg.icme11.org/tsg/show/14>

**ICME-11  
INTERNATIONAL CONGRESS ON MATHEMATICAL EDUCATION  
TOPIC STUDY GROUP #14  
RESEARCH AND DEVELOPMENT IN THE TEACHING AND LEARNING OF  
STATISTICS  
Monterrey, Mexico – July 6 - 13, 2008**

Statistics education is a growing field of research and development at school and university level. The topic group will focus on presenting and discussing recent research.

Statistics at school level is usually taught in the mathematics classroom in connection with learning probability. Inferential statistics is based on basic understandings of probability. Our topic includes probabilistic aspects in learning statistics, whereas research with a specific focus on learning probability is being discussed Topic Study Group #13 of ICME.

We are open to all kinds of relevant research papers, but our specific focus will be on the following topics:

- Students' thinking and reasoning about distributions (including variability, comparing distributions)

- Students' making inferences from data (from informal inference to more formal inference, inference from sample to population or process, from data to context, role of models and probability)
- Statistical literacy
- Role of technology (tools, applets, internet)
- Research on teachers and teaching of statistics

#### TEAM CHAIRS

Rolf Biehler (Germany), biehler@mathematik.uni-kassel.de  
Mike Shaughnessy (USA), mikesh@pdx.edu

#### TEAM MEMBERS

Omar Rouan (Morocco), orouan@yahoo.com  
Ernesto Sánchez (Mexico), esanchez@cinvestav.mx  
Jane Watson (Australia), Jane.Watson@utas.edu.au

Website: <http://tsg.icme11.org/tsg/show/15>

#### ISI-57

#### THE 2009 SESSION OF THE INTERNATIONAL STATISTICAL INSTITUTE Durban, South Africa, August 16 – 22, 2009



IASE sponsored Invited Paper Meetings for 57th Session in Durban are being organised by Helen MacGillivray (Australia, h.macgillivray@qut.edu.au). The IASE Programme Committee for ISI-57 has chosen the theme - Statistics Education for the Future.

More information is available at:  
<http://www.statssa.gov.za/isi2009/>

#### SRTL-6

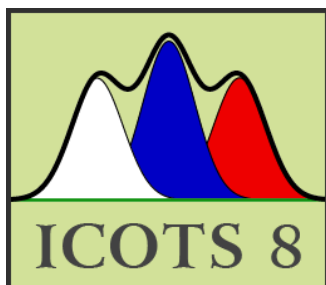
#### THE SIXTH INTERNATIONAL RESEARCH FORUM ON STATISTICAL REASONING, THINKING, AND LITERACY Brisbane, Australia, 2009



The sixth SRTL forum will be organized at University of Queensland, Brisbane.

The forum coordinator is Katie Makar (k.makar@uq.edu.au).

**ICOTS-8**  
**DATA AND CONTEXT IN STATISTICS EDUCATION:**  
**TOWARDS AN EVIDENCE-BASED SOCIETY**  
**Ljubljana, Slovenia, July 11-16, 2010**



The 2010 International Conference on Teaching Statistics will be held in the city of Ljubljana, Slovenia, July 11-16. It is being organised by the IASE and the Slovenian Statistical Association. The venue will be the Ljubljana Cultural and Congress Centre.

Statistics educators, statisticians, teachers and educators at large are invited to contribute to the scientific programme. Types of contribution include invited papers, contributed papers, and posters. No person may author more than one Invited Paper at the conference, although the same person can be co-author of more than one paper, provided each paper is presented by a different person.

Voluntary refereeing procedures will be implemented for ICOTS-8. Details of how to prepare manuscripts, the refereeing process and final submission arrangements will be announced later.

### **INVITED PAPERS**

Invited Paper Sessions are organized within 10 Conference Topics as follows.

#### **Topics and Topic Convenors**

1. Data and Context in Statistics Education: Towards an Evidence-based Society.  
 Brian Phillips (Australia) bphillips@swin.edu.au  
 Irena Ograjensek (Slovenia) irena.ograjensek@ef.uni-lj.si
2. Statistics Education at the School Level.  
 Mike Shaughnessy (USA) mikesh@pdx.edu  
 Doreen Connor (UK) doreen.connor@ntu.ac.uk
3. Learning to Teach Statistics.  
 Katie Makar (Australia) k.makar@uq.edu.au  
 Joachim Engel (Germany) engel@math.uni-hannover.de
4. Statistics Education at the Post Secondary Level.  
 Elisabeth Svensson (Sweden) elisabeth.svensson@esi.oru.se  
 Larry Weldon (Canada) weldon@sfu.ca
5. Assessment in Statistics Education.  
 Beth Chance (USA) bchance@calpoly.edu  
 Iddo Gal (Israel) iddo@research.haifa.ac.il
6. Statistics Education, Training and the Workplace.  
 Gabriella Belli (USA) gbelli@vt.edu  
 Peter Petocz (Australia) peter.petocz@mq.edu.au
7. Statistics Education and the Wider Society.  
 Richard Gadsden (UK) R.J.Gadsden@lboro.ac.uk  
 Oded Meyer (USA) meyer@stat.cmu.edu
8. Research in Statistics Education.  
 Arthur Bakker (The Netherlands) a.bakker@fi.uu.nl  
 Tim Burgess (New Zealand) t.a.burgess@massey.ac.nz
9. Technology in Statistics Education.

Deborah Nolan (USA) nolan@stat.berkeley.edu  
Paul Darius (Belgium) paul.darius@biw.kuleuven.be  
10. An International Perspective on Statistics Education.  
Delia North (South Africa) northd@ukzn.ac.za  
Enriqueta Reston (Phillipines) edreston@usc.edu.ph

Session themes within each Topic are currently being discussed. The themes and Session organizers with email contact will be available on the ICOTS-8 web site <http://icots8.org/>, under “Scientific Programme” by June 2008. Those interested in submitting an invited paper should contact the appropriate Session Organiser before December 1, 2008.

### **CONTRIBUTED PAPERS**

Contributed paper sessions will be arranged in a variety of areas. Those interested in submitting a contributed paper should contact either Gilberte Schuyten (Gilberte.Schuyten@UGent.be), John McKenzie (mckenzie@babson.edu), or Flavia Jolliffe (F.Jolliffe@kent.ac.uk) before September 1, 2009.

### **POSTERS**

Those interested in submitting a poster should contact Mojca Bavdaz (mojca.bavdaz@ef.uni-lj.si) or Alesa Lotric Dolinar (alesa.lotric.dolinar@ef.uni-lj.si) before January 15, 2010.

### **GENERAL ISSUES**

More information is available from the ICOTS-8 web site at <http://icots8.org/> which will continue to be updated over the next three years, or from the ICOTS IPC Chair John Harraway, (jharraway@maths.otago.ac.nz), the Programme Chair Roxy Peck (rpeck@calpoly.edu), and the Scientific Secretary Helen MacGillivray (h.macgillivray@qut.edu.au).

## OTHER PAST CONFERENCES

### USCOTS 2007 UNITED STATES CONFERENCE ON TEACHING STATISTICS Columbus OH, USA, May 17-19, 2007



The second biennial United States Conference on Teaching Statistics (USCOTS 07) was held on May 17-19, 2007 at the Ohio State University in Columbus, Ohio, hosted by CAUSE, the Consortium for the Advancement of Undergraduate Statistics Education. The target audience for USCOTS was teachers of undergraduate and AP statistics, from any discipline or type of institution.

Materials for most of the talks are available at USCOTS page:  
<http://www.causeweb.org/uscots/program/>

### 2007 JOINT STATISTICAL MEETINGS Salt Lake City UT, USA, July 29 - August 2, 2007

JSM (the Joint Statistical Meetings) is the largest gathering of statisticians held in North America. It is held jointly with the American Statistical Association, the International Biometric Society (ENAR and WNAR), the Institute of Mathematical Statistics, and the Statistical Society of Canada. Some materials are available at <http://www.amstat.org/meetings/jsm/2007/>.

### JOINT SOCR (STATISTICS ONLINE COMPUTATIONAL RESOURCE) CAUSEWAY CONTINUING EDUCATION WORKSHOP 2007 UCLA, Los Angeles CA, USA, August 6-8, 2007



The 2007 joint SOCR/CAUSEway continuing education workshop aimed at demonstrating the functionality, utilization and assessment of the current UCLA, SOCR and CAUSEweb resources. This workshop appealed to AP teachers and college instructors of probability and statistics classes who have interests in exploring novel IT-based approaches for enhancing statistics education.

Workshop materials, including the Workshop Handbook, are freely available at [http://wiki.stat.ucla.edu/socr/index.php/SOCR\\_Events\\_SOCR\\_CAUSEway\\_Workshop2007](http://wiki.stat.ucla.edu/socr/index.php/SOCR_Events_SOCR_CAUSEway_Workshop2007)

### 9TH INTERNATIONAL CONFERENCE OF THE MATHEMATICS EDUCATION INTO THE 21ST CENTURY PROJECT MATHEMATICS EDUCATION IN A GLOBAL COMMUNITY Charlotte NC, USA, September 7 - 13, 2007



The Mathematics Education into the 21st Century Project was founded in 1986 and is dedicated to the planning, writing and disseminating of innovative ideas and materials in Mathematics and Statistics Education. Conference materials and presented papers are available at: [math.unipa.it/~grim/21\\_project/21\\_charlotte\\_2007.htm](http://math.unipa.it/~grim/21_project/21_charlotte_2007.htm)



## OTHER FORTHCOMING CONFERENCES

**INTED 2008**  
**INTERNATIONAL TECHNOLOGY, EDUCATION AND DEVELOPMENT**  
**CONFERENCE**  
**Valencia, Spain, March 3 – 5, 2008**

On behalf of the INTED 2008 Organizing Committee we would like to invite you to participate in the International Technology, Education and Development Conference in Valencia (Spain) on the 3rd, 4th and 5th of March, 2008.

The general objective of INTED 2008 conference is the promotion of international collaboration in the field of technology, engineering, and science education. INTED 2008 provides an International Forum for researchers, engineers, professors, educational scientists and technologists in the areas of Education, Science, and Technology. It will be an excellent opportunity to present, demonstrate and discuss research, development, applications, and the latest innovations and results in the field of Higher Education and Industry.

More information: [inted2008@iated.org](mailto:inted2008@iated.org)  
 Website: <http://www.iated.org/inted2008/>

**2008 JOINT STATISTICAL MEETINGS**  
**Denver CO, USA, August 3 - 7, 2008**

JSM (the Joint Statistical Meetings) is the largest gathering of statisticians held in North America. It is held jointly with the American Statistical Association, the International Biometric Society (ENAR and WNAR), the Institute of Mathematical Statistics, and the Statistical Society of Canada. Attended by over 5000 people, activities of the meeting include oral presentations, panel sessions, poster presentations, continuing education courses, exhibit hall (with state-of-the-art statistical products and opportunities), career placement service, society and section business meetings, committee meetings, social activities, and networking opportunities. Denver, the host city for JSM 2008, offers a wide range of possibilities for sharing time with friends and colleagues.

More information: [jsm@amstat.org](mailto:jsm@amstat.org)  
 Website: <http://www.amstat.org/meetings/jsm/2008/>

**10TH INTERNATIONAL CONFERENCE OF THE MATHEMATICS**  
**EDUCATION INTO THE 21ST CENTURY PROJECT**  
**MODELS IN DEVELOPING MATHEMATICS EDUCATION**  
**Dresden, Saxony, Germany, September 11 – 17, 2009**



The Mathematics Education into the 21st Century Project was founded in 1986 and is dedicated to the planning, writing and disseminating of innovative ideas and materials in Mathematics and Statistics Education. You are invited to attend our 10th anniversary project conference to be held in the historic city of Dresden, Germany. The chairman of the Local Organising Committee will be Prof. Dr. Ludwig Paditz of the Dresden University of Applied Sciences.

More information: Alan Rogerson, [arogerson@inetia.pl](mailto:arogerson@inetia.pl)  
 Website: [http://math.unipa.it/~grim/21\\_project/21\\_project\\_Dresden\\_2009.pdf](http://math.unipa.it/~grim/21_project/21_project_Dresden_2009.pdf)