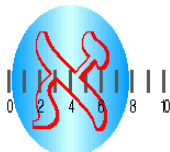


AMCTM 2011 – FIRST ANNOUNCEMENT AND CALL FOR PAPERS

International Conference on Advanced Mathematical and Computational Tools in Metrology and Testing (AMCTM 2011)



Göteborg, Sweden, Chalmers University of Technology, 20-22 June, 2011

an event of
IMEKO TC21 “Mathematical Tools for Measurements”

supported and organised by
**SP Sveriges Tekniska Forskningsinstitut
Chalmers University of Technology**

and supported by
EURAMET Focus Group “Software & Mathematical Tools for Metrology”

www.sp.se/AMCTM2011



Chairpersons: Leslie Pendrill (Chairman EURAMET, SP, SE), Franco Pavese (Chairman IMEKO TC21, Torino, Italy), Alistair B. Forbes (Scientific Secretary IMEKO TC21, NPL, UK), Markus Bär (Convenor EURAMET Focus Group “Software and Mathematical Tools for Metrology”).

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International Chapter: Isao Kishimoto (AIST-NMIJ, Japan), Gregory Kyriazis (INMETRO, Brazil), Leonel Lira-Cortes (CENAM, Mexico), Robin Willink (IRL, CRI, New Zealand), Nien-fan Zhang (NIST, USA).

Preliminary list of sponsors: IMEKO, IMEKO TC21, SP, Chalmers, EURAMET

The AMCTM Conferences

The **IX AMCTM 2011** Conference will be held in Göteborg, organised by **SP Sveriges Tekniska Forskningsinstitut** (<http://www.sp.se>), **EURAMET** (www.euramet.org) jointly with **IMEKO TC21** (www.imeko-tc21.org) at **Chalmers University of Technology** (www.chalmers.se). Following the first workshop held in Torino (1993), the previous AMCTM conferences were held in Oxford (1995, 1999), Berlin (1996) and Lisboa (2000) (supported by the European Union EuroConferences Programme) and in Torino (2003), Lisboa (2005) (supported by the EU Network SofTools_Metronet) and Paris 2008, and led to eight volumes on *Advanced Mathematical and Computational Tools in Metrology* published by World Scientific www.wspc.com. Volumes content tables can be found at www.amctm.org.

Conference general aims

- *To present and promote reliable and effective mathematical and computational tools in metrology;*
- *To understand better the modelling, statistical and computational requirements in metrology;*
- *To provide a forum for metrologists, mathematicians and software engineers that will encourage a more effective synthesis of skills, capabilities and resources;*
- *To promote collaboration in the context of EU and International Programmes;*
- *To support young researchers in metrology and related fields, also through training;*
- *To address industrial requirements;*
- *To cover both fields of calibration and testing*

The Conference ambition is to play a role as a central opportunity for the metrological community worldwide, to meet applied mathematicians and statisticians acting in the relevant fields and the software engineers producing adequate working tools.

AMCTM 2011 Conference format

In addition to plenary talks, AMCTM 2011 will be organised in two parallel sessions, to increase the opportunities of oral presentations.

Posters are planned be displayed from the first day.

A Round Table discussion (tentative themes: Issues related to the redefinition of SI units; Issues related to qualitative measurements) will complete the programme.



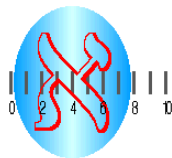
*Chalmers University of Technology
Gothenburg (Göteborg)*

www.sp.se/AMCTM2011 www.imeko-tc21.org

Themes for AMCTM 2011 Conference

The 2011 edition of the AMCTM conference is planned to deliver the following topics in thematic sessions (examples of the aimed contents are provided in parentheses), namely based on the collaborations in TC21 SIGs (see themes in <http://www.imeko-tc21.org>):

- **Fundamentals in measurement** (basic and new methods for metrology and testing)
- **Data analysis, inference** (Bayesian, frequentist, fiducial, etc) **and uncertainty evaluation** (key comparisons, outliers, systematic effects, guidelines, etc). (**Joint EURAMET Focus Group/ IMEKO Session**)
- **Continuous modelling and inverse problems** (partial differential equations) (**Joint EURAMET Focus Group/IMEKO Session**)
- **Energy: Mathematical and Computational Tools –a metrological challenge**
- **Environment: Mathematical and Computational Tools –the role of metrology and testing** (for meteorology, in analytical chemistry, etc)
- **Analysis of ordinal data in metrology and testing** (counting in ionising radiation, health, biology, industry, etc)
- **Metrology of perceptual and qualitative quantities** (perception measures, uncertainty in qualitative measurements, etc)
- **Measurement software and internet metrology** (software validation, measurement software, networking, etc)
- **Metrology, calibration and testing** (issues in measuring specific quantities in calibration, issues in testing, etc)
- **Industrial statistics and metrological traceability** (equivalence, traceability, experimental design, process analytical technologies (PAT), etc)
- **Written standards for metrology and testing** (nomenclature guides, decision making, extension to qualitative measures, inter-consistency of prescriptive standards)



**Immediately following this Edition:
6th International EURAMET workshop on
“Analysis of dynamic measurements”
June 22 - 23, 2011**

(please find details on <http://www.sp.se/en/units/measurement/training/sidor/default.aspx>

or contact peter.hessling@sp.se).

Call for papers for AMCTM 2011

Authors intending to contribute to AMCTM 2011 are invited to submit an **abstract** (max 2 A4 pages) to the Conference Scientific Secretary, in the MS Word or LaTeX style that can be found for the 9.00" x 6.00" book format under http://www.worldscientific.com/style/proceedings_style.shtml, for review by the International Programme Committee. Authors can indicate their preference (oral or poster), but the final decision is taken by the IPC.

Submission of abstract of papers for oral/poster presentation: closing 28 February 2011

Electronic submission by e-mail to: amctm2011@sp.se is mandatory. Indicate subject: "AMCTM2011 abstract"

Submission of late abstracts of posters will be allowed until 30 April 2011.

NOTE: Submissions addressing exclusively or mainly experimental equipment or procedures will be considered out of the scope of the Conference.

Reception of the abstracts will be confirmed by e-mail to the indicated author. Authors of accepted papers will be asked to submit full papers related to their oral or poster presentation not later than the end of the Conference.

Instructions for the preparation of full papers will follow with acceptance of presentation.

Following peer review, invited and selected submitted papers will be published by early 2012 in the multiauthor book "Advanced Mathematical and Computational Tools in Metrology and Testing IX" (World Scientific, Singapore).

Venue

The AMCTM 2011 Conference venue will be the Chalmers Conference Centre at Chalmers University of Technology, Göteborg, Sweden. For more information before the final announcement (April 2011) visit the website www.sp.se/AMCTM2011.

Registration cost

The expected approximate registration fee to AMCTM 2011 for the three-day events is € 400 (plus VAT for Swedish participants) (possible discounts and grants to be decided later). This covers coffee breaks, lunches and one copy of the book AMCTM IX. Payment information will be supplied in due time. Early bird registration will be possible.

Accommodation

A list of hotels close to the venue and at different cost levels will be supplied together with public transportation information. Each participant has to arrange his/her own hotel accommodations in Göteborg.

For further information visit the webpages

www.sp.se/AMCTM2011 or www.imeko-tc21.org

or contact the Conference Secretariat amctm2011@sp.se

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