

AMCTM 2011, Göteborg, Sweden, June 20 – 22, 2011, [www.sp.se/AMCTM2011](http://www.sp.se/AMCTM2011)

### Final Announcement

## Conference on Advanced Mathematical and Computational Tools in Metrology and Testing 20 – 22 June 2011 – Göteborg (Sweden) (venue: Chalmers Conference Centre<sup>1</sup>)

### Provisional Conference Programme

This exciting programme of the IX AMCTM Conference covers a broad range of subjects of interest to metrology and testing, and reflects the activities of IMEKO TC21. The programme consists of plenary sessions, two strands of oral parallel sessions, poster and round table sessions, and includes invited presentations delivered by recognised authorities in their field from world-leading Institutions. The oral sessions feature talks by established and younger scientists from 30 countries around the world. The mix of plenary, parallel and poster sessions will allow attendees to learn about the latest developments and discuss their ideas with the conference participants in a friendly and stimulating environment.

It presents a broad range of subject matters of interest for both fields of metrology and of testing, including **12 plenary** presentations delivered by recognised authorities in each field coming from world leading Institutions. The parallel sessions account for **50 oral** presentations, leaving a wide opportunity to appreciate fully the Conference programme in addition to plenary talks and from about **20 poster** presentations that can be amply discussed in a dedicated Session and throughout the conference. A feature of this conference is a **Round Table** discussion on *New trends in mathematics, statistics and measurement software*, of interest to both metrology and testing, and conducted by a panel of experienced scientists who will introduce the themes to facilitate the debate.

### Sunday, June 19 2011

16:00 – 20:00 **REGISTRATION** (location: Lower Foyer, floor 0, Chalmers Conference Centre)

17:00 – 20:00 **RECEPTION** – SP welcomes participants (location: Upper Foyer, floor 1)

### Monday, June 20 2011

**9:00 CONFERENCE OPENING** (location: Chalmers Conference Centre)

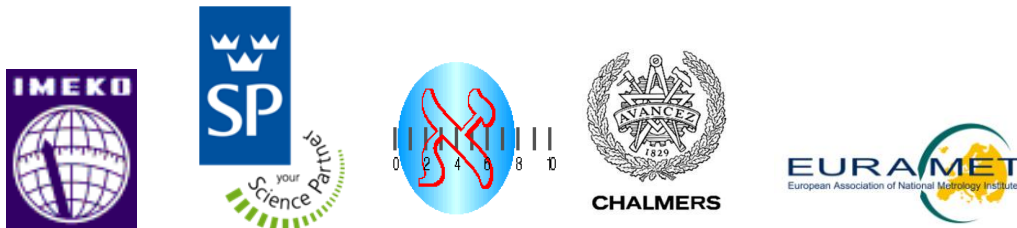
	<b>Session Plenary</b> (room: RUNAN) <b>Chairs:</b> Pavese, Forbes, Bär, Pendrill
9:20	K. Shirono, H. Tanaka, K. Ehara, THEORY AND COMPUTATIONAL PROGRAM FOR THE DETERMINATION OF REFERENCE VALUE IN KEY COMPARISON BASED ON BAYESIAN STATISTICS
9:50	A.B. Forbes, A TWO-STAGE MCM/MCMC ALGORITHM FOR UNCERTAINTY EVALUATION

10:20 – 10:50 *Break*

	<b>Session Plenary</b> - continued (room: RUNAN) <b>Chairs:</b> Benoit, Forbes
10:50	C. Elster, B. Toman, BAYESIAN ANALYSIS VERSUS APPLICATION OF THE GUM-S1 FOR UNCERTAINTY EVALUATION IN LINEAR AND NONLINEAR REGRESSION
11:20	A. Allard, N. Fischer, RECOMMENDED TOOLS FOR SENSITIVITY ANALYSIS ASSOCIATED TO THE EVALUATION OF MEASUREMENT UNCERTAINTY
11:50	F. Crenna, G.B. Rossi, L. Bovio, PROBABILISTIC CHARACTERIZATION OF FACE MEASUREMENT
12:20	L.R. Pendrill, UNCERTAINTY & RISKS IN DECISION-MAKING IN QUALITATIVE MEASUREMENT

12:50 *Lunch* (location: Upper Foyer, floor 1, Chalmers Conference Centre)

<sup>1</sup> <http://www.chalmerskonferens.se/en/Contact-us/Find-us-Johanneberg>



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**Monday, June 20 2011 (continued)**

14:00	<b>POSTER SESSION</b> (rooms: Foyer/VALDEMAR, posters (dimensions W 1 x H 2 m) displayed until Wednesday) <b>15 posters Chair:</b> Pavese
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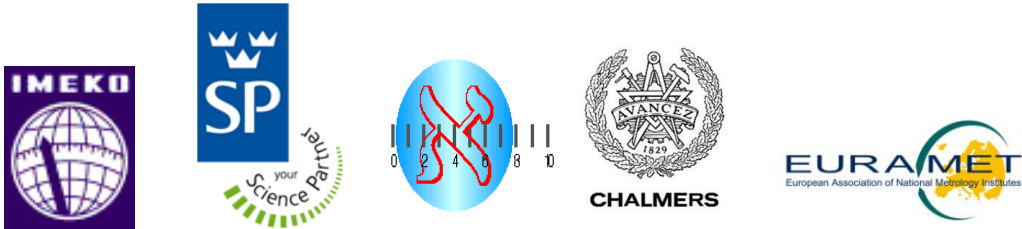
**List of accepted posters**

- 1) B. Arendacka, A SIMPLE CONFIDENCE INTERVAL FOR THE COMMON MEAN
- 2) Fang Hong, Bian Xin, Liu Ke, Zhou Xin, Zhao Haining, MEASUREMENT UNCERTAINTY ESTIMATION OF VIRTUAL INSTRUMENT BASED ON MONTE CARLO METHOD
- 3) P. Fexa, J. Vedral, MEASUREMENT SYSTEM, TESTING AND SIGNAL PROCESSING USING LABVIEW
- 4) A.B. Forbes, H.D. Minh, GENERATION OF NUMERICAL ARTEFACTS FOR GENERALISED REGRESSION
- 5) R. Furutani, M. Ozaki, MEASUREMENT UNCERTAINTY FOR CALIBRATED
- 6) C.Hernandez Zavala, R. Tutsch, INFLUENCE OF THE LOOK-UP WINDOW SIZE WHEN APPLYING A FORWARDLOOKING CONTROLLER
- 7) S. Parkinson, A. Longstaff, A. Crampton, G. Allen. S. Fletcher, A. Myers, THE USE OF CRYPTOGRAPHIC PRINCIPLES WITHIN METROLOGY SOFTWARE
- 8) F. Pavese, NEED FOR CONSISTENCY OF TERMINOLOGY IN INTERNATIONAL STANDARDS AND GUIDELINES: SOME CASE STUDIES AND CONCEPT DIAGRAMS
- 9) C. Perkins, A. Longstaff, S. Fletcher, P. Willoughby, RATE-OF-CHANGE ANALYSIS APPLIED TO MACHINE TOOL MONITORING AND MAINTENANCE SCHEDULES
- 10) Yan RongXin, Wang Yong, A COMPARISON METHOD USED FOR CALIBRATING LEAKAGE RATE OF HELIUM VACUUM REFERENCE LEAK AND COMBINED STANDARD UNCERTAINTY EVALUATION
- 11) D. Sporea, C. Dragomirescu, F-D. Frumosu, VIBRATION DAMPING USING LASER VIBROMETRY INVESTIGATED WITH THE ANOVA METHOD
- 12) R. Svenningsson, R. Johansson, T. Arts, U. Norell, J. Svenningsson, H. Svensson, TESTING AUTOSAR SOFTWARE COMPONENTS WITH QUICKCHECK
- 13) A. Valcu, S. Baicu, EXCEL TOOLS FOR ANALYSIS RESULTS IN CALIBRATION / VERIFICATION OF ELECTRONIC BALANCES
- 14) Wang Yong, Yan RongXin, Sun LiChen, APPLICATION OF THE UNCERTAINTY THEORY IN THE LEAK TESTING OF THE SPACECRAFT
- 15) C. Yardin, TOOLS TO IMPROVE THE ESTIMATION OF THE CALIBRATION OF THE CALIBRATION LINE AND THE CALCULATION OF FORECASTS

	<b>Session Plenary - continued</b> (room: RUNAN) <b>Chairs:</b> Benoit, Forbes
15:00	T. Eward, C. Matthews, S. Downes, A. Knott, S. Eichstädt, C. Elster, UNCERTAINTY EVALUATION FOR TRACEABLE DYNAMIC MEASUREMENT OF MECHANICAL QUANTITIES: A CASE STUDY IN DYNAMIC PRESSURE CALIBRATION

	<b>Session 1</b> (room: RUNAN)	<b>Session 2</b> (room: SCANIA)
	<b>Industrial statistics – 1</b>	<b>Bayesian approach to inference – 1</b>
	<b>Chairs:</b> Bremser, Vicario	<b>Chairs:</b> Elster, Kyriakis
<b>15:30</b>	A. Barari, Estimation of detailed deviation zone of inspected surfaces	A. Bariska, R Burgin, Case study of likelihood and Bayes approaches for measurement based on non-linear regression
<b>15:50</b>	G. Barbato, G.D. Panciani, F. Ricci, S. Ruffa, G. Vicario, Form tolerance verification: a sequential approach of the inspected design	O. Bodnar, G. Wübbeler, C. Elster, Comparison of different choices for a prior under partial information in a Bayesian analysis

16:10–16:40 *Break*

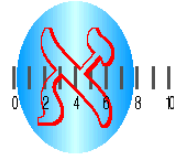


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## Monday, June 20 2011 (continued)

	<b>Session 1 (cont)</b> (room: RUNAN)	<b>Session 2 (cont)</b> (room: SCANIA)
	<b>Industrial statistics – 2</b>	<b>Bayesian approach to inference – 2</b>
	<b>Chairs:</b> Bremser, Vicario	<b>Chairs:</b> Lira, Fischer
16:40	L. Carli, M. Galetto, G. Genta, Uncertainty modelling in 3D SEM stereophotogrammetry	K. Klauenberg, K. Jousten, C. Elster, Bayesian variance separation under heteroscedasticity – Pressure measurement as case study
17:00	Ben-Shung Chow, Calibration of MTF for outdoor cameras with polluted lens	G.A. Kyriazis, Bayesian inference in waveform metrology
17:20	F. Ezedine, J.M. Linares, W. Mansor, J. Othman, Uncertainty calculation of a multicamera tracking system in a cave	I. Lira, D. Gentschnig, A formalism for expressing the probability distributions of interrelated quantities

17:50 [Close](#)



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## Tuesday, June 21 2011

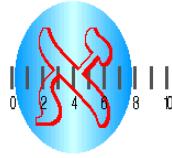
	<b>Session 1 (cont) (room: RUNAN)</b>	<b>Session 3 (room: SCANIA)</b>
	<b>Industrial statistics – 3</b>	<b>Uncertainty evaluation and Monte Carlo method – 1</b>
	<b>Chairs:</b> Bremser, Vicario	<b>Chairs:</b> Forbes, Willink
<b>08:40</b>	F. Moschas, P. Psimoulis, S. Stiros, Quality assessment and filtering algorithms of high-frequency measurements of GPS and robotic theodolites using supervised learning techniques	R. Kessel, R. Kacker, Rapid Monte Carlo simulations using parallel computing and a client-server model
<b>09:00</b>	E. Reetz, A. Schlegel, M. Schumann, G. Linß, Application of spline surface profile filters to subpixel contour decomposition problems	G. Wübbeler, P.M. Harris, M.G. Cox, C.Elster, Assessment of the GUM S1 adaptive Monte Carlo scheme
<b>09:20</b>	G.L. Samuel, S. Denis Ashok, Measurement and evaluation of asynchronous radial error of a high speed spindle	R. Willink, Measurement uncertainty and procedures of conformity assessment
<b>09:40</b>	D. Vetturi, A. Delli Carri, I Bodini, M. Lancini, Mathematical method for the definition of a non linear multi input-one output calibration diagram of laser positioning sensor	R. Kacker, R. Kessel, K-D. Sommer, Only non-informative Bayesian prior distributions agree with the GUM Type A evaluations of input quantities
<b>10:00</b>	P. Werner, A. Schlegel, M. Schumann, Jorg Bargenda, M. Rosenberger, Gerhard Linß, A novel method for an automated analysis of a measurement scene	Z.L. Warsza, M.J. Korczynski, Properties of $\cos^2$ function as probability distribution model of uncertainty evaluation

10:20 – 10:50 *Break*

	<b>Session 4 (room: RUNAN)</b>	<b>Session 3 (cont) (room: SCANIA)</b>
	<b>Metrology, calibration and testing – 1</b>	<b>Uncertainty evaluation and Monte Carlo method – 2</b>
	<b>Chairs:</b> Filtz, Rocha	<b>Chairs:</b> Forbes, Willink
10:50	J. Chaves-Jacob, J.M. Linares, J.M. Sprauel, Using statistical confidence boundary of a D.O.E. response surface to estimate optimal factors	R. Kessel, G. Wübbeler, R. Kacker, Improved adaptive procedure to determine the necessary number of Monte Carlo trials to achieve the required numerical tolerance
11:10	M.G. Cox, P.M. Harris, I.M. Smith, Software to support the use of the GUM Supplement 2 – Extension to any number of output quantities	Bian Xin, Zhou Xin, Fan Hong, Liu Ke, Visualization-assisted analytical method for evaluating propagation of uncertainty
11:30	M. Cundeva-Blajer, L. Arsov, R. Malaric, Prediction of resistance standards time behaviour by stochastic determination of Lagrange polynomials	E. Buzac, Analysis of systematic effects in order to improve the expanded measurement uncertainty

	<b>Session 1 – Plenary - continued (room: RUNAN)</b>
	<b>Chairs:</b> Bremser, Vicario
11:50	S. Eichstädt, C. Elster, UNCERTAINTY EVALUATION FOR CONTINUOUS-TIME MEASUREMENTS

12:20 *Lunch* (location: Upper Foyer, floor 1, Chalmers Conference Centre)



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**Tuesday, June 21 2011 (continued)**

	<b>Session Plenary</b> - continued (room: RUNAN) <b>Chairs:</b> Kacker, Forbes
13:50	F. Pavese, ON THE DIFFERENCE OF MEANINGS OF “ZERO CORRECTION”: ZERO VALUE vs. NO CORRECTION, AND OF THE ASSOCIATED UNCERTAINTIES

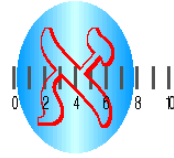
	<b>Session 4 (cont)</b> (room: RUNAN)	<b>Session 5</b> (room: SCANIA)
	<b>Metrology, calibration and testing – 2</b>	<b>Metrological compatibility (key comparisons, proficiency tests, systematic effects, terminology)</b>
	<b>Chairs:</b> Pendrill, Filtz	<b>Chairs:</b> Pavese, Granovski
14:20	M. Galetto, M. Luca, Mathematical model for error correction in MScMS-II (Mobile Spatial coordinate Measurement System)	W. Bremser, Self-consistent Reference Value estimation
14:40	M. Galovska, R. Tutsch, O Jusko, Data fusion techniques for cylindrical surface measurements	S. Demeyer, N. Fischer, Modelling expert knowledge to assign consensus values in proficiency tests: a Bayesian approach
15:00	P. Klason, A. Andersson, M. Holmsten, P. Lau, G. Kok, Measuring temperature distributions in pipe flows	F. Moschas, S. Stiros, Differences in recording of collocated, identical sensors
15:20	G.M. Rocha, R.P. Landim, A software for the evaluation of the stability and drift of measuring standards	Z. L. Warsza, V. Ezhela, Evaluation and numerical presentation of the results of multidimensional indirect measurements – Outline of the theoretical backgrounds
15:40	M. Schumann, J. Bargenda, A. Schlegel, P. Werner, M. Rosenberger, G. Linß, Measuring edges on pivot-mounted objects during rotation	V.A. Granovsky, T.N. Siraya, Metrological traceability and quality of industrial tests measurements

16:10–16:40 *Break*

16:40–18:30 **ROUND TABLE** (room: RUNAN)

<b>Projects in metrological research: new trends of interest for mathematics, statistics and measurement software</b> (provisional title)
<i>Moderators:</i> Pavese, Forbes, Bär, Pendrill, Vicario, Shirono, Kyriakis, Kacker
Presentations:
<b>a) Energy:</b> K-D. Sommer, U. Hanebeck, MODEL-BASED RECONSTRUCTION IN MEASURING SYSTEMS FOR RECKONING AND CONTROLLING OF ENERGY DISTRIBUTION GRIDS
<b>b) Health:</b> K. Klauenberg, B. Ebert, J. Voigt, M. Wanzel, J.E. Noble, A.E. Knight, C.Elster, BAYESIAN ANALYSIS OF AN INTERNATIONAL ELISA COMPARABILITY STUDY
<b>c) Environment:</b> U. Maniscalco, G. Pilato, MULTI-SENSOR DATA FUSION IN SPATIAL FORECASTING OF ENVIRONMENT PARAMETERS
<b>d) EMRP and other EURAMET region activities:</b> M. Bär & L. R. Pendrill
<b>Floor questions to previous presentations and general discussion</b>

20:30 **CONFERENCE DINNER** (location: Chalmers Conference Centre)



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## Wednesday, June 22 2011

	<b>Session 6 (room: RUNAN)</b>	<b>Session 7 (room: SCANIA)</b>
	<b>Metrology for Energy, Environment and Health</b>	<b>Metrology of ordinal and qualitative data</b>
	<b>Chairs:</b> Sommer, Morawski	<b>Chairs:</b> Crenna, Emardson
<b>08:40</b>	H-P. Beck, J zum Hingst, G. Geiß, Nodal load observer with imperfect measurement infrastructure for (smart) electrical grids	E. Bashkansky, T. Gadrich, Some metrological and mathematical aspects of ordinal data treatment
<b>09:00</b>	P. Dupuis, N. Van Overstraeten, J-P Raskin, L.A. Francis, D. Flandre, Some mitigations for unequal data variance in linear regression	E. Benoit, Calibration of ordinal metrical scale
<b>09:20</b>	A. Silva Ribeiro, C. Oliveira, M.G. Cox, J Alves e Sousa, L. Lages Martins, J. Cardoso, P. Limede, Modelling and uncertainty evaluation for the radiation quality parameters used in metrological management of diagnostic	R. Emardson, L. R. Pendrill, C. Sundling, M.E. Nilsson, B. Berglund, Measurement of accessibility to rail transport systems
		<b>Session 8 (room: SCANIA)</b> <b>Continuous modelling and inverse problems</b>
		<b>Chairs:</b> Bär, Esward
<b>09:50</b>		M-A. Henn, H. Gross, C. Elster, M. Bär, Maximum likelihood estimation for profile reconstructions in scatterometry

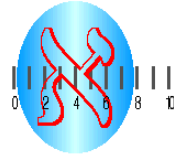
10:10 – 10:40 *Break*

	<b>Session 6 (cont) (room: RUNAN)</b>	<b>Session 8 (cont) (room: SCANIA)</b>
	<b>Metrology for Energy, Environment and Health – 2</b>	<b>Continuous modelling and inverse problems – 2</b>
	<b>Chairs:</b> Sommer, Silva Ribero	<b>Chairs:</b> Bär, Esward
<b>10:50</b>	R.Z. Morawski, A. Miekina, A method of weighting matrix for spectrophotometric analysis of oil mixtures	H. Gross, M-A. Henn, A. Rathsfeld, M. Bär, Stochastic modelling aspects for an improved solution of the inverse problem in scatterometry
<b>11:10</b>	M. Reginatto, Resolving power and superresolution for spectrometers used in radiation detection	R. Model, S. Schmelter, G. Lindner, M. Bär, Numerical simulations and turbulent modelling for applications in flow metrology
<b>11:30</b>	J. Mailhé, J.M. Linares, J.M. Sprauel, Coordinate generator for the TKA navigator testing after reference frame displacement	T. J. Esward, P. M. Harris, C.E. Matthews, L. Wright, X-S. Yang, Metrology and design with continuous models: tools for optimisation, sensitivity and uncertainty evaluation

	<b>Session Plenary - continued (room: RUNAN)</b>
	<b>Chairs:</b> Pavese, Pendrill
11:50	N. Fischer, V. Le Sant, N. Sangare, D. Rochais, J. Mattout, A BAYESIAN APPROACH TO THE CONDITIONAL ESTIMATION OF PARAMETERS AND ASSOCIATED UNCERTAINTY: APPLICATION TO MEASUREMENTS OF THERMAL DIFFUSIVITY OF MATERIALS
12:20	J.-R. Filtz, Evitherm, one useful website for all AMCTM 2011 participants and much more...

**12:30–13:00 CONFERENCE CLOSE** (room: RUNAN) Pavese, Forbes, Bär, Pendrill

13:00 *Lunch* (location: Upper Foyer, floor 1, Chalmers Conference Centre)



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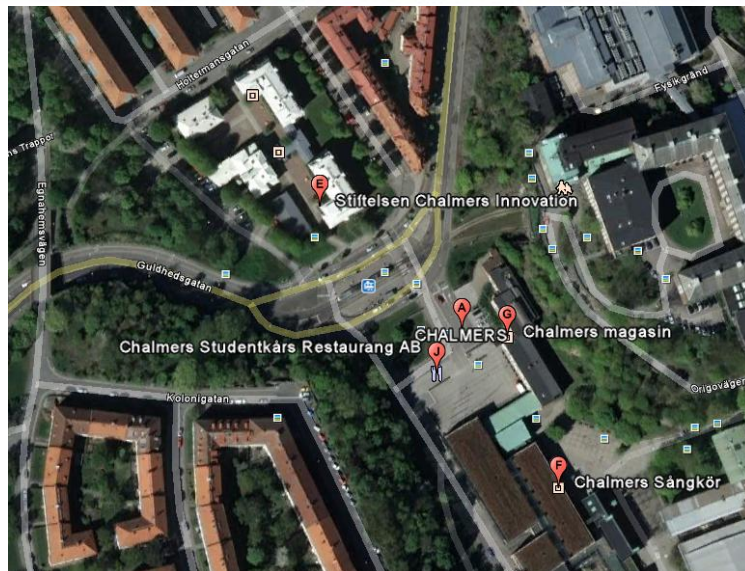
**Wednesday, June 22 2011 (continued)**

**After Conference: Open Meetings**

14:30–16:00 **IMEKO TC 21 MEETING (room: Catella, floor 2)**

17:00–18:00 **EURAMET Focus Group on Mathematics MEETING (room: Catella, floor 2)**

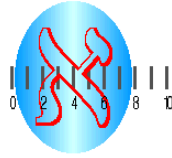
Chalmers Conference Centre



**LOCATION:**

Chalmers Konferens & Restauranger  
Main entrance  
Chalmersplatsen 1  
412 58 Göteborg  
Sweden

<http://www.chalmerskonferens.se/en/Contact-us/Find-us-Johanneberg>



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### **Submission of full papers for multi-author book “AMCTM IX”**

Authors of accepted presentations (plenary, oral or poster) and who will attend the Conference are asked to submit full manuscripts electronically to Editor Dr F Pavese ([f.pavese@inrim.it](mailto:f.pavese@inrim.it)) no later than by the **end of the Conference**, for consideration for publication in a multi-author book. Manuscript format (trim size 9.00” x 6.00”) can be downloaded from [http://www.worldscientific.com/style/proceedings\\_style.shtml](http://www.worldscientific.com/style/proceedings_style.shtml).

Following peer review, invited and selected submitted papers will be published by early 2012 in a multi-author book of about 400 pages “Advanced Mathematical and Computational Tools in Metrology and Testing IX” (World Scientific Publ. Co., Singapore). Detailed instructions for manuscript submission and paper publication are available from the Editor Dr F Pavese ([f.pavese@inrim.it](mailto:f.pavese@inrim.it)).

The **maximum** length of the manuscript is as follows: **PLENARY 12 pages, ORAL 8 pages, POSTER 5 pages.**

Authors are required to strictly comply with the relevant length.

Authors are required to strictly comply with the relevant chosen format.

Please note the following supplementary instructions:

–figures embedded in a MS Word file should be embedded using the "Insert a figure from an external file" method, not pasted into the text (floating or anchored). Please be careful not to enormously increase the Word file size only due to figures: in the manuscript they can have a lower resolution.

–the figures in the submitted manuscript must be in the intended final form.

–for formulas in Word, do not use special equation editors which cannot be edited by others. Do not use equation editor for simple expressions with single sub- or super-scripts, but use the simple command formats. Use only the font Symbol for all Greek letters. When using the equation editor, be sure to use the correct commands to ensure the consistency of the font size with those of the text.

The manuscript must be provided in all the following ways:

–as a file in the chosen format (MS Word (also RTF is accepted) or TEX) on a CD-ROM or via e-mail to me;

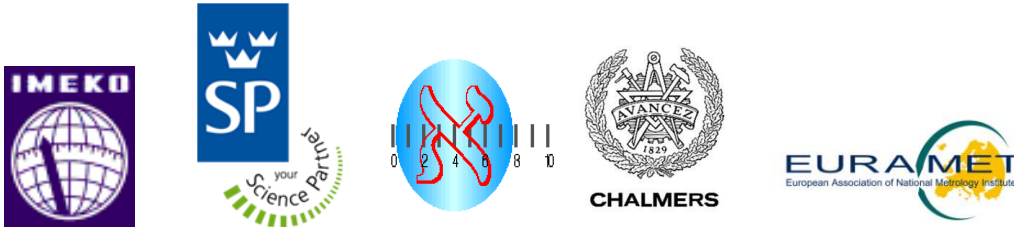
–as a PDF file, in order to allow to check the exact original formatting, since sometimes MS Word produces different appearances with different OSs and Countries;

–as a paper copy;

–figures must be provided each by a separate file. The preference is for vectorial formats, since editorial corrections will be possible to the Editors; among them, Excel format should be avoided. In addition to the chosen vectorial format, and for non-vectorial (bitmap) figures, the figures should be provided also and exclusively in JPEG (JPG) format reduced to a file size near 1 MB, if originally larger. For bitmap figures the original version before reduction to JPEG should have a resolution of 600 ppi and transformed with 100% quality. If substantially reduced in size, please also submit the original bitmap file in TIFF (TIF) format. For TEX users PS format for figures is not accepted without also the JPEG one.

–colour figures are accepted for the initial submission, but in the final version of the manuscript they must be provided in the grayscale only: be sure that they remain readable, also at the required final dimension in the paper.

–for transmission via e-mail attachment, the maximum size of each e-mail should not exceed 10 MB.



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### **Registration cost**

The Conference Registration fee to AMCTM 2011 for the three-day event includes: access to all sessions; coffee breaks (Monday to Wednesday morning) and lunches (Monday, Tuesday & Wednesday); the Sunday welcome reception and (except for the student registration) one copy of the multi-author book AMCTM IX. The abstract booklet will be available on [www.sp.se/AMCTM2011](http://www.sp.se/AMCTM2011): *no printed copy will be provided*. The Conference Registration fees are as follows (plus VAT for Swedish participants only):

- Early-bird registration: **€ 400** until May 6 inclusive - closed
- IMEKO TC21 member/friend reduced registration fee: **€ 340**, possible only for registrations **until May 6** and for 1 member/friend from the TC21 member organisation and 1 more for every 3 further registered from the same organisation - closed
- Regular registration after May 6 and until May 27: **€ 440** - closed
- Late registration (from May 28): **€ 500**
- Student fee: **€ 100**, ID required (book not included)

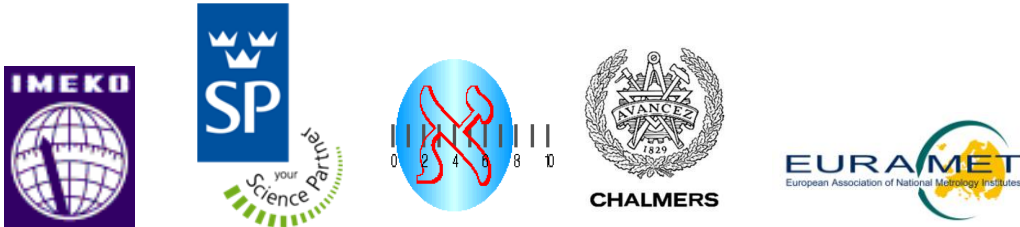
Payment information is given on [www.sp.se/AMCTM2011](http://www.sp.se/AMCTM2011). Conference Registration Invoices will be sent to registered participants from early May.

### **Conference Dinner**

The Conference Dinner is *not* covered by the above Conference Registration registration fee: the Dinner is expected to cost about 50€. The Conference Dinner booking deadline is **June 10**. Please book the Conference Dinner by sending an e-mail to: [amctm2011@sp.se](mailto:amctm2011@sp.se). Indicate the subject “AMCTM2011 Conference Dinner” and indicate any dietary preferences. Further information is given on [www.sp.se/AMCTM2011](http://www.sp.se/AMCTM2011). The Conference Dinner fee will be invoiced where possible together with invoicing of the Conference Registration fee. Those participants who have already paid their Conference Registration fees are kindly asked to pay cash for the Conference Dinner at the conference desk upon arrival.

### **Accommodation**

A list of hotels close to the venue and at different cost levels is available together with public transportation information on [www.sp.se/AMCTM2011](http://www.sp.se/AMCTM2011). Each participant has to arrange his/her own hotel accommodation in Göteborg.



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AMCTM 2011 Organisation:

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