



Preface

Contents

Authors A-Z

Announcement
IMEKO XVIII WORLD CONGRESS

Joint International IMEKO TC1 + TC7 Symposium

September 21-24, 2005

Faculty of Mechanical Engineering



Preface

The Technische Universität Ilmenau has the pleasure to host the Joint International IMEKO TC1+TC7 Symposium 2005. The theme of the Symposium is

Metrology and Measurement Education in the Internet Era.

This Symposium will offer a unique opportunity to gather information about the latest solutions, to exchange new ideas and to engage in interdisciplinary discussions regarding Measurement Science and Measurement Education in the Internet Era. The Symposium will attempt to answer the question how Measurement Science and Measurement Education may harmoniously develop throughout the 3rd millennium. It is linked to the 50th International Scientific Colloquium (IWK), which is hosted by the TU Ilmenau, and focuses on Mechanical Engineering from Macro to Nano.

The Symposium is also held in honour of Ernst Abbe (1840-1905). He was an outstanding scientist, entrepreneur and social reformer who made a significant contribution to the emergence of the high-technology companies as they are today in Jena, Erfurt and Ilmenau. The year 2005 will see the 100th anniversary of the death of Ernst Abbe. As he was deeply involved in promoting young, upcoming scientists this Symposium shall serve this idea as well. ...

more ►



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The principal aim of the scientific programme is the discussion of new challenges in metrology and measurement resulting from the widespread use of new enabling Internet technologies and methods at the beginning of the 3rd millenium:

- global harmonisation and standardisation of terms and definitions in measurement science,
- global collaboration of measurement experts in physical, chemical, technological, medical, biological, economical and social sciences,
- new solutions for measurements in macro-, micro- and nanotechnologies,
- introduction of augmented realities in metrology,
- wireless communication and remote measurements,
- virtual workplaces and measurement laboratories,
- miniaturisation of sensors and systems,
- extension and unification of measurement software.

May the Joint International IMEKO TC1+TC7 Symposium be an opportunity for all participants to enter into interesting discussions and to establish or renew contact with fellow scientists, engineers or researchers in their field. Many thanks to all authors for their time and their care and to those contributing in other ways to the Symposium.

Univ.-Prof. Dr. rer. nat. habil. Peter Scharff
Rector of the Technische Universität Ilmenau

Univ.-Prof. Dr.-Ing. habil. Gerhard Linß
Symposium Chairman

◀ more



Content

Session 1

Opening and Key Lectures

Session 2

Measurement Education and Training

Session 3

Fundamentals of Measurement Science

Session 4

Systems for Metrology and Measurements

Session 5

Applications of Measurement Science and Technology

Session 6

Measurement Applications Using Image Processing

more ►

Content

Session 7

Posters

◀ more

Session 1: Opening and Key Lectures

L. Van Biesen, T. Kemény, D. Röske

Non-Governmental Cooperation in Measurement and Instrumentation

D. Hofmann

Innovations in Quality Measurement & Education with Vision Sensors & Mobile Communication

P. Regtien, M. Halaj, E. Kureková, P. Gabko

Comet: an Internet Based Platform for Education in Measurement

R. Morawski

Digital Signal Processing for Graduate Students of Measurement Science and Technology

Session 2: Measurement Education and Training

B. Andò, P. Giannone, S. Graziani, N. Pitrone

Characterization of Piezoelectric Bimorphs: A Meaningful Teaching Example

T. Conrad, E. Chapman, A. Schütze

VenDASys – A Universal Experimentation Platform for Educational Purposes

M. Korczynski, T. Dunski

Virtual Laboratory – A Universal Tool Supporting Teaching Metrology and Related Subjects

A. Albrecht, T. Frank, M. Günther, S. Nieland, A. Steinke, V. Zöppig

MORES® A Further Modular Component of the Match-X Construction Kit for Implementation in the Education of Engineers

A. Weckenmann, S. Beetz

EUKOM – Training in Coordinate Metrology Via the Internet

more ►

Session 2: Measurement Education and Training

K. Kariya, S. Takayama

Appropriate Example of Basic Concepts of "Measurement Science for Liberal Education"

N. Deblauwe, J. Tiberghien, A. Barel

A Water Tower to Help Future Engineers Choosing Their Specialisation

S. Baglio, N. Pitrone, N. Savalli

Different Approaches for Training on Three-Phase System Measurements by Advanced Technologies

F. Lindemann, H. Czuday

MST Application Centre in Ilmenau – Fostering the Global Cooperation and Business of Experts in Measurement Technologies

Session 3: Fundamentals of Measurement Science

V. Granovsky

Metrology Position in the System of Sciences

L. Mari, S. Sartori

A Relational Modeling of Measurement and its Metrological Implications

K. Ruhm

From Sensor Fusion to Data Fusion – Extended Structures of Metrology

T. Siraya

Structural Approach to Measurement Quality

K. Sapozhnikova, M. Henry, R. Taymanov

The Need for Standards in Self-Diagnosing and Self-Validating Instrumentation

more ►

Session 3: Fundamentals of Measurement Science

M. Korczynski, A. Hetman, P. Fotowicz

Fast Fourier Transformation - An Approach to Coverage Interval Calculation vs. Approximation Methods

T. Sugimoto, T. Nagamine, H. Zhong

Measurement Method of Walking Velocity for Human Using Electro-Magnetic Sensor

B. Lihtsinder, L. Ivanova

Probabilistic Methods of Knowledge Monitoring

K. Weißensee, C. Zinner, G. Linß

Economic Consequences of Incorrect Decisions Caused by Measurement Uncertainty – Assessment of Risks and Error-Follow-Up Cost

Session 4: Systems for Metrology and Measurements

S. Töpfer, G. Linß, U. Nehse

Inspection Strategies and Inspection Planning for Dimensional Measurements of Micro- and Nano-Structured Components Using Cascaded Sensor Systems

M. Balke, E. Peiner, L. Doering

Tactile Probes for Micro Metrology

S. Rosenkranz, W. Bürger, J. Bliedtner, W. Müller

Micro Topographic Requirements to the Injection Moulding of High Precision Components with Optical Surfaces

S. Sommer

Fail-Safety of Automated Workpiece Inspection Systems in Production Metrology

M. Billhardt

Optimization of the Usage of Quality Controls with the Help of Simulation

more ►

Session 4: Systems for Metrology and Measurements

Y. Fomichev, S. Muravyov, S. Kaysanov

Computer-Aided System for Electricity Meters Verification on the Base of Power Calibrator

G. Shin, S. Hong, D. Lee

Standard Calibration Facility and Procedure for Rain Gauges

V. Pop, H. Bergveld, P. Notten, P. Regtien

A Real-Time Evaluation System for a State-Of-Charge Indication Algorithm

A. Sovlukov, T. Varpula

Microwave Methods for Highly Sensitive Measurement of Nonelectrical Quantities

Session 5: Applications of Measurement Science and Technology

U. Nehse, F. Annemüller, D. Ernst

Dynamic Vision Training Module for i-Learning in Industrial Applications

A. de Oliveira, C. Schneider

Metrology Knowledge Management and Industry Integration Through a Remote Services Laboratory

A. Weckenmann, J. Soellner

Mess-iN – Enhancing the Competitiveness of Regional Sme's Through Workplace Near Training in Manufacturing Metrology

L. Van Biesen, P. Boets, F. Uytendhouwen, C. Neus, N. Deblauwe, H. Cordova

Impact and Challenges of Rendering Wireless Broadband Communications in Rural and Remote Areas

O. Fütterer

Properties of Multivariate Statistics from the Viewpoint of Industrial Application

more ►

Session 5: Applications of Measurement Science and Technology

O. Velychko, T. Gordiyenko

Peculiarities of Using Metrological Terms and SI Units in Environmental Guides

O. Tumová, P. Netolicky

Statistical Condition for Using of Measurement Systems Analysis

S. Takayama, M. Hiraoka, K. Mori, K. Kariya

Monitoring System for Landslide Disaster by Local Sensing Node Network

V. Belotti, F. Crenna, R. Michelini, G. Rossi

Remote Sensing and Control with Client-Server Architecture with Application to a Robot for Landfill Definitive Remediation

G. Rietveld

Internet Enabled Maintenance of an Electrical Multifunctional Calibrator

Session 6: Measurement Applications Using Image Processing

J. Ferreira

Measurement 3D Volumetric Models of Bones from Computer Tomography for Rapid Prototyping

R. Christoph, W. Rauh

Measure Complete and Accurate – Computed Tomography in Multisensor-Cmm

O. Kühn, G. Linß, S. Töpfer, U. Nehse

Robust and Accurate Fitting for Optical Dimensional Metrology

T. Nakanishi, K. Taguchi

An Employment of Projective Space on Image Processing Measurement

Session 7: Posters

D. Chaberski, S. Grzelak

Remote Measurements in Time of Flight Mass Spectroscopy

Z. Czaja

About Fault Diagnosis Methods of Analog Electronic Circuits Based on the Time Response to a Square Impulse and Identification Curves in Multidimensional Spaces

S. Grzelak, D. Chaberski

Remote Reconfigurable Measurements Module with Analog and Digital Inputs

V. Herold, C. von Saldern, J. Schoner

Shape and Roughness Measurement of Aspherical Lenses with an Ars-Sensor

D. Imkamp

Potentials of Standardized Inspection Data Transfer from CAD to Metrology

more ►

Session 7: Posters

Y. Iwaki, T. Inamura

Creation Research of the Reference Value in Blood Chemical Analysis

F. Pompéia, L. Gusmão, C. Barbosa, E. Monteiro, L. Gonsalves, F. Machado

Development of a Low Intensity Magnetic Field Transducer for Biomedical Application Based on the Giant Magnetoimpedance Effect

V. Rumyantsev, V. Shkodyrev

High-Accuracy GPS Receiver Based on Blind Multipath Mitigation

F. Santos, R. Freire, E. Melcher, H. de Melo, G. Fontgalland

Evaluation of Static Errors in Radiometers with Thermoresistive Sensor Due to DC Amplifier Offset Voltage

G. Shin, T. Lee

System Identification for Effective Measurement of Remote System

Session 7: Posters

R. Tabisz

Creating Accuracy of Industrial Measurement Systems for Their Intended Use

A. Vaganov, Y. Skripnik, K. Shevchenko

Metrological Characteristics of Super-High-Frequency Radiometers

C. Weber, V. Herold, S. Eckner

Metrological Evaluation of a Shape Adjustable Wafer Chuck

Authors A-Z

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Name

Session

Paper

A...

Albrecht, A.

2



Andò, B.

2



Annemüller, F.

5



more ►



Authors A-Z

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Name

Session

Paper

B...

Baglio, S.

2



Balke, M.

4



Barbosa, C.

7



Barel, A.

2



Beetz, S.

2



Belotti, V.

5



Bergveld, H.

4



Billhardt, M.

4



Bliedtner, J.

4



Boets, P.

5



Bürger, W.

4



◀ more

more ▶

HOME



IMEKO ▲

A...Z



Authors A-Z

 A B **C** D E F G H I J K L M N O P Q R S T U V W X Y Z

Name

Session

Paper

C...

Chaberski, D.

7



Chapman, E.

2



Christoph, R.

6



Conrad, T.

2



Cordova, H.

5



Crenna, F.

5



Czaja, Z.

7



Czuday, H.

2



◀ more

more ▶

Authors A-Z

 A B C **D** E F G H I J K L M N O P Q R S T U V W X Y Z

Name

Session

Paper

D...

de Melo, H.

7

de Oliveira, A.

5

Deblauwe, N.

2

Doering, L.

4

Dunski, T.

2



◀ more

more ▶

Authors A-Z

A B C D **E** F G H I J K L M N O P Q R S T U V W X Y Z

Name

Session

Paper

E...

Eckner, S.

7



Ernst, D.

5



◀ more

more ▶

Authors A-Z

 A B C D E **F** G H I J K L M N O P Q R S T U V W X Y Z

Name

Session

Paper

F...

Ferreira, J.

6



Fomichev, Y.

4



Fontgalland, G.

7



Fotowicz, P.

3



Frank, T.

2



Freire, R.

7



Fütterer, O.

5










◀ more

more ▶

Authors A-Z

 A B C D E F **G** H I J K L M N O P Q R S T U V W X Y Z

Name	Session	Paper
G...		
Gabko, P.	1	
Giannone, P.	2	
Gonsalves, L.	7	
Gordiyenko, T.	5	
Granovsky, V.	3	
Graziani, S.	2	
Grzelak, S.	7	 
Günther, M.	2	
Gusmão, L.	7	

◀ more

more ▶

Authors A-Z

A B C D E F G **H** I J K L M N O P Q R S T U V W X Y Z

Name

Session

Paper

H...

Halaj, M.

1

Henry, M.

3

Herold, V.

7

Hetman, A.

3

Hiraoka, M.

5

Hofmann, D.

1

Hong, S.

4



◀ more

more ▶

Authors A-Z

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Name

Session

Paper

I...

Imkamp, D.

7

Inamura, T.

7

Ivanova, L.

3

Iwaki, Y.

7











◀ more

more ▶

Authors A-Z

 A B C D E F G H I J **K** L M N O P Q R S T U V W X Y Z

Name	Session	Paper
K...		
Kariya, K.	2	
	5	
Kaysanov, S.	4	
Kemény, T.	1	
Korczynski, M.	2	
	3	
Kühn, O.	6	
Kureková, E.	1	

◀ more

more ▶

Authors A-Z

A B C D E F G H I J K **L** M N O P Q R S T U V W X Y Z

Name

Session

Paper

L...

Lee, D.

4



Lee, T.

7



Lihtsinder, B.

3



Lindemann, F.

2



Linß, G.

3



4



6











◀ more

more ▶

Authors A-Z

A B C D E F G H I J K L **M** N O P Q R S T U V W X Y Z

Name	Session	Paper
M...		
Machado, F.	7	
Mari, L.	3	
Melcher, E.	7	
Michelini, R.	5	
Monteiro, E.	7	
Morawski, R.	1	
Mori, K.	5	
Müller, W.	4	
Muravyov, S.	4	

◀ more

more ▶

Authors A-Z

A B C D E F G H I J K L M **N** O P Q R S T U V W X Y Z

Name

Session

Paper

N...

Nagamine, T.

3

Nakanishi, T.

6

Nehse, U.

4

Netolicky, P.

5

Neus, C.

6

Nieland, S.

5

Notten, P.

5

2

4



◀ more

more ▶

Authors A-Z

A B C D E F G H I J K L M N O **P** Q R S T U V W X Y Z

Name

Session

Paper

P...

Peiner, E.

4

Pitrone, N.

2

Pompéia, F.

7

Pop, V.

4



◀ more

more ▶

Authors A-Z

 A B C D E F G H I J K L M N O P Q **R** S T U V W X Y Z

Name	Session	Paper
R...		
Rauh, W.	6	
Regtien, P.	1	
	4	
Rietveld, G.	5	
Röske, D.	1	
Rosenkranz, S.	4	
Rossi, G.	5	
Ruhm, K.	3	
Rumyantsev, V.	7	









Authors A-Z

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Name Session Paper

S...

Santos, F.	7	
Sapozhnikova, K.	3	
Sartori, S.	3	
Savalli, N.	2	
Schneider, C.	5	
Schoner, J.	7	
Schütze, A.	2	
Shevchenko, K.	7	
Shin, G.	4	
	7	
Shkodyrev, V.	7	
Siraya, T.	3	
Skripnik, Y.	7	
Soellner, J.	5	
Sommer, S.	4	
Sovlukov, A.	4	
Steinke, A.	2	

◀ more

more ▶

Authors A-Z

A B C D E F G H I J K L M N O P Q R **S** T U V W X Y Z

Name

Session

Paper

...S

Sugimoto, T.

3









◀ more

more ▶

Authors A-Z

 A B C D E F G H I J K L M N O P Q R S **T** U V W X Y Z

Name	Session	Paper
T...		
Tabisz, R.	7	
Taguchi, K.	6	
Takayama, S.	2	
	5	
Taymanov, R.	3	
Tiberghien, J.	2	
Töpfer, S.	4	
	6	
Tumová, O.	5	

◀ more

more ▶

Authors A-Z

A B C D E F G H I J K L M N O P Q R S T **U** V W X Y Z

Name

Session

Paper

U...

Uytendhouwen, F.

5



◀ more

more ▶

Authors A-Z

A B C D E F G H I J K L M N O P Q R S T U **V** W X Y Z

Name	Session	Paper
V...		
Vaganov, A.	7	
Van Biesen, L.	1	
	5	
Varpula, T.	4	
Velychko, O.	5	
von Saldern, C.	7	

◀ more

more ▶

Authors A-Z

A B C D E F G H I J K L M N O P Q R S T U V **W** X Y Z

Name

Session

Paper

W...

Weber, C.

7



Weckenmann, A.

2



5



Weißensee, K.

3



◀ more

more ▶

Authors A-Z

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Name

Session

Paper

Z...

Zhong, H.

3



Zinner, C.

3



Zöppig, V.

2

