

## Conference Programme: 11<sup>th</sup> April 2018 (Day 1)

12:30 – 12:50      **OPENING CEREMONY**

Welcome by Vice Rector of University of Bielsko-Biala (Prof. Iwona Adamiec-Wójcik), Chairman of Scientific Committee (Prof. Jerzy Śladek) and Vice Chairman of Scientific Committee (Prof. Albert Weckenmann)

13:00 – 14:00      **Lunch**

14:20 – 16:00      **Plenary session A**  
 Chairmen: Enrico Savio, Małgorzata Poniatowska

14:20 – 15:00      A1      Recent activities, and the evolution of CMS standards in ISO TC 213 / WG10

**Edward P. Morse** – Keynote speaker

15:00 – 15:20      A2      Measurement results with low uncertainties require precise adequate defined measurand

**Heiko Schmidt**, Tino Hausotte

15:20 – 15:40      A3      New tools for unique geometrical tolerancing implemented in recently published GPS standards

**Zbigniew Humienny**

15:40 – 16:00      A4      Product quality inspection and optimization evaluation based on GPS

**Hanbin Wang**, Chaoyang Wang, Xiaohuai Chen, Zhichun Zhou, Zhen Liu, Yinbao Cheng, Hongli Li

16:00 – 16:20      **Coffee break**

16:20 – 17:40      **Plenary session B**  
 Chairmen: Ágota Drégelyi-Kiss, Marek Dobosz

16:20 – 16:40      B1      New roughness sensor on CMMs for automated measurement of geometric dimensions and roughness parameters

**Dietrich Imkamp**, Michael Zimmermann, Marek Migacz

16:40 – 17:00      B2      Scale issue in length metrology

**Michał Wieczorowski**, Paweł Pawlus, Thomas Mathia

17:00 – 17:20      B3      Functional surface characterization and the impact of flatness deviations

**Saskia Schiefer**, Marco Gerlach, André Martin

17:20 – 17:40      B4      The effect of oil dimple size on areal form removal in surface topography analysis

**Przemysław Podulka**

18:00      **Dinner**

## Conference Programme: 12<sup>th</sup> April 2018 (Day 2)

9:00 – 10:00		Plenary session C Chairmen: Alessandro Balsamo, Michał Wieczorowski
9:00 – 9:40	C1	Fast inspection of freeform parts at elevated temperatures through high-speed laser triangulation <b>Enrico Savio</b> – Keynote speaker
9:40 – 10:00	C2	Air and material separation method for industrial CT scanners Adam Woźniak, <b>Tomasz Kowaluk</b>
10:00 – 10:20		Coffee break
10:20 – 11:20		Plenary session D Chairmen: Marco Gerlach, Zbigniew Humienny
10:20 – 10:40	D1	Investigations on measurement uncertainty in case of industrial CT <b>Ágota Drégelyi-Kiss</b>
10:40 – 11:00	D2	Types of gauges for testing the accuracy of X-ray tomographs for industrial applications <b>Tomasz Kowaluk</b> , Eugeniusz Ratajczyk
11:00 – 11:20	D3	Application of GPS Card reading method for interpretation of tolerances of location Nabil Anwer, Martin Colvez, <b>Luc Mathieu</b>
11:20 – 13:30	E	Poster session / Trip to the ski jumps (Szczyrk Skalite HS-106, HS-77, HS-44) GPSVToolbox – Multiplier Event
13:30 – 14:20		Lunch

Conference Programme: 12<sup>th</sup> April 2018  
(Day 2 – poster session)

Application of computed tomography in automotive world – how industrial CT works

Monika Barciewicz, Andrzej Ryniewicz

Computed tomography as quality control technique in 3D modeling of car system components

Monika Barciewicz, Andrzej Ryniewicz

CT application for examination of thin walls and gaps made FDM additive technique

Bartosz Gapiński

The influence of heights of the sample setting on the mapping of surface inequality under thermally unstable measurement conditions

Karol Grochalski, Michał Jakubowicz, Natalia Swojak

Applications of run-out tolerances

Luca Gualtieri, Fabrizio Medeossi, Enrico Savio, Marco Menoncin

Determination of geometric errors of revolute kinematic pairs using LaserTracer system

Wiktor Harmatys, Adam Gąska, Maciej Gruza, Piotr Gąska, Jerzy Sładek

Possibility of calibration optical dots-plates for 3D scanners

Marcin Krawczyk, Konrad Kobiela

Profile tolerancing and the impact of ISO 1660:2017 on users

Roman Kuster, Michael Marxer

Areal filters in surface texture measurements

Tukun Li, Roman Kuster

Complementary evaluation of the turning process, regarding surface roughness, tool wear and cutting edge roughness

Michał Mendak, Natalia Swojak, Michał Jakubowicz, Karol Grochalski

Conference Programme: 12<sup>th</sup> April 2018  
(Day 2 – poster session)

Determination of the accuracy of optical measurement obtained by matching point clouds using markers

Ksenia Ostrowska, Halszka Skórska, Konrad Kobiela, Wiktor Harmatys, Jerzy Sładek

Determination of the temperature's influence on the geometry of Coordinate Measuring Arm

Ksenia Ostrowska, Halszka Skórska, Paweł Walczak, Wiktor Harmatys, Jerzy Sładek

Simulation tests of accuracy of two freeform surfaces' fitting

Małgorzata Poniatowska, Damian Groch, Andrzej Werner

Association of datums according to ISO 5459:2011 and ISO 1101:2017

Grigore Marian Pop, Calin Neamtu, Mihai Dragomir, Sorin Popescu

Child growth weekly measurement using universal coordinate measuring instruments

Marta Rępańska, Adam Woźniak

On metrological aspects of measurement on the basis of PCR

Andriy Sverstiuk, Oksana Shevchuk, Olha Marchuk, Vasyl Martsenyuk

Evaluation of metrological properties of laser triangulation heads

Natalia Swojak, Michał Jakubowicz, Karol Grochalski, Michał Mendak

Calibration procedure for portable coordinate measuring systems

Mariusz Wiśniewski

The optical device for measurement a reflector antenna surface

Igor Zelinsky, Mykhailo Palamar, Myroslava Yavorska

## Conference Programme: 12<sup>th</sup> April 2018 (Day 2)

14:20 – 16:00		Plenary session F Chairmen: Edward Morse, Adam Woźniak
14:20 – 15:00	F1	Principles of traceability in coordinate metrology <b>Alessandro Balsamo</b> – Keynote speaker
15:00 – 15:20	F2	Novel method for uncertainty evaluation of coordinate measurements <b>Wojciech Płowucha</b>
15:20 – 15:40	F3	Industry 4.0 and multisensor technology <b>Henke Poulssen</b>
15:40 – 16:00	F4	Traceability of coordinate measurements at Central Office of Measures <b>Adam Wójtowicz</b> , Piotr Sosinowski, Dariusz Czulek
16:00 – 16:20		Coffee break
16:20 – 17:40		Plenary session G Chairmen: Hanbin Wang, Tomasz Kowaluk
16:20 – 16:40	G1	Measurements of form deviations of 3D elements with the use of adaptive strategy based on helical trace <b>Stanisław Adamczak</b> , Dariusz Janecki, Krzysztof Stępień
16:40 – 17:00	G2	A new interference sensor for ultra-precise measurement of laser beam angular deflection <b>Marek Dobosz</b>
17:00 – 17:20	G3	Distribution of scanning lines on free-form surfaces based on results of simulations of machining processes Dominika Ziąja, <b>Marek Magdziak</b> , Piotr Nazarko
17:20 – 17:40	G4	Industrial computed tomograph <b>Robert Kaczmarczyk</b>
18:00		Barbecue

Conference Programme: 13<sup>th</sup> April 2018 (Day 3 – Polish day)

9:00 – 10:40		Plenary session H
9:00 – 9:40	H1	Metody pomiarów karoserii samochodowych po wypadku <b>Eugeniusz Ratajczyk</b>
9:40 – 10:00	H2	Current situation and future in field of programming Mitutoyo CNC CMM's <b>(in Polish)</b> <b>Tomasz Szymański</b>
10:00 – 10:20	H3	Assessment of the influence of a material standard type on functioning of the probe head errors model <b>(in Polish)</b> <b>Piotr Gąska, Maciej Gruza, Adam Gąska, Wiktor Harmatys, Jerzy Sładek</b>
10:20 – 10:40	H4	Wybrane zagadnienia niepewności pomiarów <b>Paweł Rosner / Władysław Jakubiec</b>
10:40 – 11:00		Coffee break
11:00 – 12:00		Plenary session I
11:00 – 11:20	I1	Assessment of the possibility of applications of laser triangulation heads in measurement of roundness <b>(in Polish)</b> <b>Michał Jakubowicz, Natalia Swojak, Karol Grochalski</b>
11:20 – 11:40	I2	On modeling biosensor devices based on predator-prey cellular automaton <b>(in Polish)</b> <b>Vasyl Martsenyuk, Aleksandra Kłos-Witkowska, Andriy Sverstiuk, Oksana Bagrii-Zayats</b>
11:40 – 12:00	I3	Tilting influence on error characteristics of a probe for CNC machine tool <b>(in Polish)</b> <b>Michał Jankowski, Adam Woźniak</b>
12:00 – 12:20		Lunch