PREFACE

21ST INTERNATIONAL CONFERENCE APPLIED MECHANICS 2019 APRIL 15–17, 2019, OSTRAVICE, CZECH REPUBLIC

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1 Introduction

AM2019 was the 21st continuation of the series of international conferences Applied Mechanics taking place usually in Czech Republic, Slovakia and Poland. This event has been held in Ostravice from 15 to 17 April 2019. The conference has been organized under the patronage of the rector of VSB – Technical University of Ostrava, prof. RNDr. Václav Snášel, CSc., and the dean of the Faculty of Mechanical Engineering, prof. Ing. Ivo Hlavatý, Ph.D.

2 Basic information

The goal of the 21st international conference Applied Mechanics was the meeting and presentations of scientific works mainly of Ph.D. students and young researchers in the field of applied mechanics.

Webpages: <http://aplmech.vsb.cz/>

Topics of Interests:

- Mechanics of Materials
- Mechanics of Modern Materials and Composites, 3D Print Materials
- Reliability of Structures
- Fracture Mechanics, Fatigue, Creep and Thermal Loading
- Dynamics, Kinematics
- Numerical Methods in Mechanics
- Biomechanics, Fluid Mechanics,
- Noise and Vibrations Measurement

During AM2019 a special attention was given to evaluation of scientific and technical quality of works prepared by PhD students.

Following young scientists were successful in the competition:

1. Ing. Filip Zaoral, IT4Innovations, VSB-Technical University of Ostrava, CZ
2. Ing. Jan Rendl, Faculty of Applied Sciences, University of West Bohemia, CZ
3. Ing. Jaroslav Majko, Faculty of Mechanical Engineering, University of Žilina, SK

As much as 61 participants took part on the event. The conference proceeding contains 43 scientific contributions.

Scientific Committee of AM2019:

- Paweł Bachorz, Silesian University of Technology, Gliwice (PL)
- Jiří Blekta, IDIADA CZ a.s., Liberec (CZ)
- Miroslav Byrtus, University of West Bohemia, Plzeň (CZ)
- Karel Frydryšek, VŠB-Technical University of Ostrava, Ostrava (CZ)
- Michal Hajžman, University of West Bohemia, Plzeň (CZ)
- Radim Halama, VŠB-Technical University of Ostrava, Ostrava (CZ)
- Pavel Hutař, Institute of Physics of Materials, Czech Academy of Sciences, Brno (CZ)
- Roland Jančo, Slovak University of Technology in Bratislava, Bratislava (SK)
- Paweł Jureczko, Silesian University of Technology, Gliwice (PL)
- Vladimír Kutíš, Slovak University of Technology in Bratislava, Bratislava (SK)
- Luboš Náhlík, Institute of Physics of Materials, Czech Academy of Sciences, Brno (CZ)
- Zdeněk Padovec, Czech Technical University in Prague, Praha (CZ)
- Milan Vaško, University of Žilina, Žilina (SK)

Organizing Committee of AM2019:

Martin Fusek, Radim Halama, Zdeněk Poruba, Michal Šofer, Jakub Cienciala, Dagmar Ličková, Jiří Šmach, Kateřina Šimečková, Vojtěch Machalla, Zbyněk Paška, Martin Nevřela

3 Series of Applied Mechanics conferences

1st	AM1999	March 16–18	Brno, Czech Republic
2nd	AM2000	April 3–6	Liberec, Czech Republic
3rd	AM2001	April 2–5	Nečtiny, Czech Republic
4th	AM2002	April 8–11	Ostrava, Czech Republic
5th	AM2003	March 24–27	Jaworzynka, Poland
6th	AM2004	March 22–25	Kočovce, Slovak Republic
7th	AM2005	March 29 – April 1	Hrotovice, Czech Republic
8th	AM2006	April 3–5	Srní, Czech Republic
9th	AM2007	April 16–19	Malenovice, Czech Republic
10th	AM2008	April 7–10	Wisła, Poland
11th	AM2009	April 6–8	Smolenice, Slovak Republic
12th	AM2010	April 19–21	Jablonec nad Nisou, Czech Republic
13th	AM2011	April 18–20	Velké Bílovice, Czech Republic
14th	AM2012	April 16–18	Plzeň, Czech Republic
15th	AM2013	April 15–18	Velké Karlovice, Czech Republic
16th	AM2014	April 14–16	Kraków, Poland
17th	AM2015	April 13–15	Kutná Hora, Czech Republic
18th	AM2016	April 11–13	Banská Štiavnica, Slovak Republic
19th	AM2017	April 25–27	Brno, Czech Republic
20th	AM2018	April 9–11	Myslovice, Czech Republic
21st	AM2019	April 15–17	Ostravice, Czech Republic