

Preface

The scientific conference “Diagnostics of Machines and Vehicles”, which took place 08-09 of December in Bydgoszcz – Drezno, is the continuation of a series of international conferences “Diagnostyka” organized by the Mechanical Engineering Department at the ex ATR/UTP University of Science and Technology and now Bydgoszcz University of Science and Technology. The meeting concerned the practical theory of diagnostics of industrial applications related to the construction and production of mobile stages. Technical diagnostics allow to determine the technical condition of objects, creates the opportunity to achieve significant material and financial savings. Ultimately, it also enables the development of new machine operation strategies, conducting highly economical repair technologies and rational spare parts management.

The main topics of the conference were: progress in testing machines supported by virtual techniques, diagnostic systems and their applications, presentation of research results and their applications, knowledge management about machine operation.

The scientific deliberations were carried out in a plenary session, poster sessions, in which participants of many scientific centres delivered their presentations.

The conference was attended by dozens of participants, including representatives of various companies and universities from Poland and abroad: University of Technology and Humanities in Radom, Poland; Belarusian National Technical University, Belarus; Almot-Expert, Poland; UTH Technical and Commercial University, Poland; Cuiavian University in Wloclawek, Poland; Bydgoszcz University of Science and Technology, Poland; Slovak University of Agriculture in Nitra, Slovak Republic; University of Novi Sad, Serbia; ODEKA – Staff Improvement Center SIMP, Poland; EAFIT University, Colombia; Poznan University of Technology, Poland; Lviv Polytechnic National University, Ukraine; Khmelnytsky National University, Ukraine; University of Defence Brno, Czech Republic; Military University of Technology, Poland; University of Montenegro, Montenegro.

We would like to thank all conference participants, authors and reviewers, for their contributions to the success of the conference and already today we would like to invite all participants to the next edition of the conference.

The website of the conference: <http://www.dmv.pbs.edu.pl>.

Editors

Tomasz Kałaczyński, Sylwester Borowski,
Michał Liss, Marcin Łukasiewicz,
Joanna Wilczarska, Ewa Kuliś

21th International Conference of Diagnostics Machines and Vehicles „Hybrid Multimedia Mobile Stage”

SCIENTIFIC COMMITTEE:

Prof. B. Żóltowski

Prof. S. Augustyn
Prof. W. Bajkow
Prof. J. Błachnio
Prof. L. Castañeda
Prof. T. Dąbrowski
Prof. S. Gad
Prof. A. Gajek
Prof. J. Girtler
Prof. A. T. Hoppe
Prof. M. Idzior
Prof. A. Jastriebow
Prof. B. Kolator
Prof. P. Lindstedt
Prof. S. A. Matyuk
Prof. M. Matuszewski
Prof. J. Musiał
Prof. Ł. Muślewski
Prof. J. Napiórkowski
Prof. T. Nowakowski
Prof. M. Pająk
Prof. M. Pawlisiak
Prof. K. Peszyński
Prof. S. Radkowski
Prof. S. Salamon
Prof. V. Shevchenko
Prof. P. Simiński
Prof. M. Skyba
Prof. H. Tylicki
Prof. S. Wierzbicki
Prof. J. Żurek
Dr inż. T. Kałaczyński
Dr inż. Marcin Łukasiewicz
Dr inż. T. Waśniewski

Chairman

WITPiS Warszawa

WAT Warszawa
AP Mińsk
Politechnika Białostocka
EAFIT Columbia
WAT Warszawa
Politechnika Świętokrzyska
Politechnika Krakowska
Politechnika Gdańska
Southampton Institute UK
Politechnika Poznańska
Politechnika Świętokrzyska
UWM Olsztyn
Politechnika Białostocka
Khmelnitsky National University
Politechnika Bydgoska
Politechnika Bydgoska
Politechnika Bydgoska
UWM Olsztyn
Politechnika Wrocławska
UTH Radom
WAT Warszawa
Politechnika Bydgoska
Politechnika Warszawska
Politechnika Częstochowska
AN Mińsk
WITPiS Sulejówek
Khmelnitsky National University
PWSZ Piła
UWM Olsztyn
ITWL Warszawa
Politechnika Bydgoska
Politechnika Bydgoska
WAT Warszawa

ORGANIZING COMMITTEE:

Dr inż. Tomasz Kałaczyński

Dr inż. Sylwester Borowski
Dr inż. Michał Liss
Dr inż. Marcin Łukasiewicz
Dr inż. Joanna Wilczarska
Mgr inż. Ewa Kuliś

Chairman

Conference office



**Stowarzyszenie Inżynierów
i Techników Mechaników Polskich
Oddział w Bydgoszczy**



**POLITECHNIKA
BYDGOSKA**
Wydział Inżynierii Mechanicznej

**Faculty of Mechanical Engineering
Department of Machine Operation
and Transport**

invite you to:

XXI International Conference:

**Diagnostics of Machines and
Vehicles 2022**

Bydgoszcz - Drezno
8 – 9 December 2022r.

More information about Conference:
<http://www.dmv.pbs.edu.pl>

Registrations:

<https://forms.gle/qs1YXSwozTY94qHU9>

Statement 1

The "Diagnostics" conference is an opportunity to discuss and exchange thoughts on the latest achievements of science and industry in the following thematic areas:

1. Advances in research of machines assisted with virtual techniques.
2. Diagnostic systems and their applications.
3. Presentation of research results and their application.
4. Knowledge management about the operation of machines.
Modern solutions for hybrid mobile scenes.

Calendar:

1. Until November 10, 2022 log in to the conference website at: <http://www.dmv.pbs.edu.pl>.
2. Until November 14, 2022 authors of papers will receive confirmation of acceptance of the paper's proposal.
3. Papers in English with payment of the conference fee should be sent by November 30, 2022.

Terms of publication of a paper:

1. Compliance with the topic (English) 8-10 pages.
2. Getting a positive review.
3. Possible correction of the paper.
4. Timely payment of the conference fee.

Attention:

After qualifying and reviewing the papers, they will be published in:

MATEC Web of Conferences

Participation in the conference: 1600 PLN
(fee for an additional article – 400 PLN)

Place of the conference:

Bydgoszcz - Drezno

Conference account:

BANK PEKAO S.A.

45 1240 6478 1111 0010 6975 5861

with a note: **DIAGNOSTYKA 2022 - (name and surname of the participant)**

Scientific committee of the conference

**Prof. B. Żółtowski – WITPiS Sulejówek – Honorary
Chairman**

Prof. S. Augustyn, WAT Warszawa
Prof. W. Bajkow - AP Mińsk
Prof. J. Błachnio – Politechnika Białostocka
Prof. L. Castañeda – EAFIT Kolumbia
Prof. T. Dąbrowski – WAT Warszawa
Prof. S. Gad – Politechnika Świętokrzyska
Prof. A. Gajek – Politechnika Krakowska
Prof. J. Girtler – Politechnika Gdańska
Prof. A. T. Hoppe - Southampton Institute U.K.
Prof. M. Idzior – Politechnika Poznańska
Prof. A. Jastriebow – Politechnika Świętokrzyska
Prof. B. Kolator – UWM Olsztyn
Prof. P. Lindstedt – Politechnika Białostocka
Prof. S. A. Matiukh – Khmelniysky National University
Prof. M. Matuszewski – PBŚ Bydgoszcz
Prof. J. Musiał – UKW Bydgoszcz
Prof. Ł. Muślewski – PBŚ Bydgoszcz
Prof. J. Napiórkowski – UWM Olsztyn
Prof. T. Nowakowski – Politechnika Wrocławska
Prof. M. Pająk – UTH Radom
Prof. M. Pawlisiak, WAT Warszawa
Prof. K. Peszyński – PBŚ Bydgoszcz
Prof. S. Radkowski - Politechnika Warszawska
Prof. S. Salamon – Politechnika Częstochowska
Prof. V. Shevchenko – AN Mińsk
Prof. P. Simiński – WITPiS Sulejówek
Prof. M. Skyba - Khmelniysky National University
Prof. H. Tylicki – PWSZ Piła
Prof. S. Wierzbicki – UWM Olsztyn
Prof. J. Żurek – ITWL Warszawa
Dr inż. T. Kałaczyński – PBŚ Bydgoszcz
Dr inż. M. Łukasiewicz – PBŚ Bydgoszcz
Dr inż. T. Waśniewski WAT Warszawa

Organizing committee:

Dr inż. Tomasz Kałaczyński – Chairman
Dr inż. Sylwester Borowski
Dr inż. Michał Liss
Dr inż. Marcin Łukasiewicz
Dr inż. Joanna Wilczarska
Mgr inż. Ewa Kuliś – **Conference Office:**

Aleja S. Kaliskiego 7,
85 – 796 BYDGOSZCZ
tel: **+48 602 727 422**
e-mail: ewa.kulis@pbs.edu.pl