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PREFACE

LIII. INTERNATIONAL SCIENTIFIC CONFERENCE KOKA 2022 SEPTEMBER 7 – 9, 2022, KOČOVCE, SLOVAK REPUBLIC

POLÓNI Marián[1], CHRÍBIK Andrej[1*]

[1] Slovak University of Technology in Bratislava, Faculty of Mechanical Engineering, Institute of Transport technology and Engineering Design, Nám. Slobody 17,812 31 Bratislava, Slovakia,
e – mail: andrej.chribik@stuba.sk

Abstract: Faculties of Mechanical Engineering, especially their Departments of Internal Combustion Engines, began conferences with a later designation KOKA (or KoKa) in the year 1969. These were initially focused on the research of the combustion engines. This was later accompanied also by research of the vehicle powertrains and drive units in general. Latest of these conferences was organized by the Institute of Transport technology and Engineering Design, SjF, STU in the year 2022 in the mansion house Kočovce.

KEYWORDS: KOKA 2022, history

1 Introduction – Brief history of the conferences

History of the conferences organised by the Czech and Slovak technical universities. Since 1969, the workplaces of the Czech and Slovak technical universities have organized a total of 53 scientific conferences focusing initially on research into combustion engines, more recently focusing on research and development of motor vehicles and their drive units. The history of the conferences originally of the Departments of Combustion Engines at the Faculties of Mechanical Engineering (today KoKa) began in 1969 at VAAZ in Brno and we consider its founders to be the colleagues whom we still remember with respect and who are no longer with us: prof. Ing. Jaroslav Trnka from VŠD in Žilina, prof. Ing. Ladislav Kovařík, CSc. from VAAZ in Brno and prof. Ing. Jaroslav Urban, CSc. from SVŠT (today STU) in Bratislava.

The faculties of the below named universities were gradually involved in organizing the conferences: VAAZ (later VA) Brno, SjF SVŠT (STU) Bratislava, FSI (FS) ČVUT Prague, FS VUT Brno, FS VŠST Liberec, SjF VŠD Žilina, MF VŠZ Prague, MF VŠP Nitra and FS VŠZ Brno.

Until the year 2022 the Mechanical Engineering Faculty of STU in Bratislava organized the following seven out of 53 conferences:

II. 1970 – Department of Combustion Engines and Ships, SjF, SVŠT Bratislava
XII. 1980 – Department of Combustion Engines and Ships, SjF, SVŠT Bratislava
XXI. 1990 – Department of Combustion Engines and Ships, SjF, SVŠT Bratislava
XXIX. 1998 – Department of Combustion Engines and Ships, SjF, STU in Bratislava
XXXVIII. 2007 – Department of Automobiles, Ships and Internal Combustion Engines, SjF, STU in Bratislava
XLVI. 2015 – Institute of Transport Technology and Design, SjF, STU in Bratislava
LIII. 2022 – Institute of Transport Technology and Design, SjF, STU in Bratislava

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Photo of the participants at the II. Conference organized in Modra by the Faculty of Mechanical Engineering SVŠT, Department of Combustion Engines in 1970. The recent conference organized in Kočovce also by the Mechanical Engineering Faculty of STU, the Institute of Transport Technology and Design in 2022 can be seen in the following photos Fig. 1 and Fig 2.



Fig. 1 Participants at II. Conference - Modra in 1970



Fig. 2 Participants at LIII. Conference - Kočovce in 2022

2 KOKA 2022

At the KOKA 2022 conference the conference participants delivered in total 5 requested lectures presented by guests and other 17 lectures presented by professionals. The requested lectures were given by:

1. Dr.h.c. prof. Ing. Ľubomír Šooš, PhD. (Fig. 3) – dean of the Faculty of Mechanical Engineering, STU in Bratislava: STATUS AND PERSPECTIVES OF RESEARCH AND EDUCATION AT SLOVAK UNIVERSITIES.

2. prof. Ing. Jan Macek, DrSc. (Fig.4) ČVUT FS Prague
WHAT CAN BE EXPECTED FOR FUTURE POWERTRAIN RESEARCH?

3. Ing. Martin Hrdlička, PhD., MBA,(Fig.5) ŠKODA AUTO a.s. Mladá Boleslav
AUTOMOTIVE INDUSTRY IN LIGHT OF REGULATION



Fig. 3 Dr.h.c. prof. Ing. Ľubomír Šooš, PhD.



Fig. 4 prof. Ing. Jan Macek, DrSc.



Fig.5 Ing. Martin Hrdlička, PhD., MBA

4. Ing. Pavol Prepiak (Fig. 6) – Association of the Automotive Industry of the Slovak Republic
2035 - THE END OF INTERNAL COMBUSTION ENGINES IN THE EU?

5. Assoc. prof. Ing. Ľuboš Magdolen, PhD., (Fig.7) Faculty of Mechanical Engineering, STU in Bratislava
INTELLIGENT MOBILITY IN THE FUTURE.



Fig.6 Ing. Pavol Prepiak



Fig.7 Assoc. prof. Ing. Ľuboš Magdolen, PhD.

Out of the expert lectures, the scientific committee of the conference selected 12 topics, which the authors have developed into new independent scientific articles, which are the subject of this special issue of the Strojnícky časopis – Journal of Mechanical Engineering.