



VILNIAUS TECHNOLOGIJŲ
IR DIZAINO KOLEGIJA

TECHNICAL FACULTY

INTERNATIONAL SCIENTIFIC CONFERENCE

„VEHICLES OF THE FUTURE“

29th April, 2024, conference hall (303 a.), Olandų str. 16, Vilnius

Moderator Jonas Matijošius , Vilnius College of Technologies and Design, Lithuania	
10.00 – 10.05	Welcome speech, dr. Gražina Strazdienė , Dean of Technical Faculty, Vilnius College of Technologies and Design, Lithuania
10.05 – 10.15	„Fuel self-sufficiency in transport as a path to Poland's energy independence“, Col. prof. Mieczysław Struś , Wrocław University Science and Technology, Poland.
10.15 – 10.25	„Liquid nitrogen as an alternative power source for transportation“, Phd Eng. Grzegorz Romanik , Wrocław University Science and Technology, Poland.
10.25 – 10.35	“Hydrogen propulsion systems in aviation - technologies and challenges“, Phd Eng. Maciej Cholewiński , Wrocław University Science and Technology, Poland.
10.35 – 10.45	“Metal hydrides application in vehicles powered by hydrogen fuel cells“, MSc.Eng. Tomasz Rybak , Wrocław University Science and Technology, Poland.
10.45 – 10.55	“Use of hydrogen technology in land transport“, MSc. Eng. Przemysław Amrozik , Orlen Group
10.55 – 11.05	“LNG in the automotive industry a path to sustainable transport“, Eng. Magdalena Barciak , Wrocław University Science and Technology, Poland.
11.05 – 11.15	“Potential of using non-traditional fuel sources (water-coal(syngas)-hydrogen“, Jacek Frąszczak , University of Wrocław, Poland.
11.15 – 12.00	Lunch
12.00 – 12.10	“The Impact of Brown’s Gas (HHO) on Combustion and Emissions of Spark Ignition Engine Fuelled With Petrol-Ethanol Mixture“, Pavel Orechov , Vilnius College of Technologies and Design, Lithuania, AE22D-2 gr., Jan Vanik , University of Pardubice, Czech Republik, Jan Lang , University of Pardubice, Czech Republik, Alfredas Rimkus , Saulius Stravinskas Vilnius College of Technologies and Design, Lithuania.
12.10 – 12.20	“Compression Ignition Internal Combustion Engine’s Energy Parameter Research Using Variable (HVO) Biodiesel and Biobutanol Fuel Blends“, Jokūbas Kalpokas Vilnius College of Technologies and Design, Lithuania, AE22D-1 gr, Gintaras Valeika , Jonas Matijošius , Vilnius College of Technologies and Design, Lithuania, Olga Orynych , Białystok University of Technology, Poland,

	Alfredas Rimkus, Artūras Kilikevičius , Vilnius Gediminas Technical University, Lithuania, Karol Tucki , Warsaw University of Life Sciences, Poland.
12.20 – 12.30	“Comparative Study on the Energetic and Ecologic Parameters of Dual Fuels (Diesel–NG and HVO–Biogas) and Conventional Diesel Fuel in a CI Engine”, Simas Jakutis , Vilnius College of Technologies and Design, Lithuania, AT22D-2 gr., Alfredas Rimkus, Saulius Stravinskas, Jonas Matijošius , Vilnius College of Technologies and Design, Lithuania.
12.30 – 12.40	“Technical aspects of the operation of the hydrogen-powered Toyota Mirai”, Rokas Ciesiūnas, Danielius Aidamovičius , Vilnius College of Technologies and Design, Lithuania, AT22D-2 gr., Šarūnas Stumbras, Tadas Vipartas, Petras Kaikaris, Audrius Matulis , Vilnius College of Technologies and Design, Lithuania.
12.40 – 12.50	“Eco-shell marathon formula realization process”, Jovydas Norkūnas, Matas Mackevičius , Vilnius College of Technologies and Design, Lithuania, MT22D-1 gr., Mantas Juchnevičius , Vilnius College of Technologies and Design, Lithuania.
12.50 – 13.30	CONFERENCE CLOSING/DISCUSSION