

The 14th Scientific-Professional Symposium Textile science and economy – *The transfer of innovations to the economy*



Zagreb, January 26th, 2022

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14th Scientific-Professional Symposium "Textile science and economy" - TZG 2022, was organised by the University of Zagreb Faculty of Textile Technology on January 26th, 2022 with the topic "The transfer of innovations to the economy". The TZG 2022 symposium was realised in partnership with the Union of Croatian Innovators and the Zagreb Inventors Association with patrons Ministry of Science and Education, Ministry of Economy and Sustainable Development, University of Zagreb, Croatian Employers Association, Croatian Academy of Engineering, Chamber of Economy, Croatian Chamber of Trades and Crafts, Croatian Association of Textile Engineers and Croatian Leather and Footwear Society. The current topic of TZG 2022, as a basis for sustainable development and increasing the competitiveness of the economy, opened the possibility to submit papers on the latest scientific, artistic and technological achievements with an emphasis on innovation, sustainability, circular economy, advanced processes and technologies, digitalization, ecology in the following thematic areas: textile fibers and advanced materials, textile design, textile refinement and care, dyeing and textile printing, clothing technology, analysis, testing and quality control, design and marketing of textiles and clothing, sustainable textile products and processes, footwear technology, energy, applied fundamental natural and technical sciences and modern educational methods of learning and teaching. During the symposium, five plenary lectures were given by distinguished speakers. The head of the Office for Technology Transfer and acting head of the Center for Research, Development and Technology Transfer of the University of Zagreb, Mrs. Vlatka Petrović, gave a presentation on "Managing innovation for successful industry-academia collaboration". Linda Kasalo Malić, head of the Project Evaluation and Contracting Sector at HAMAG-BICRO, held a lecture "Possibilities for transformation of the economy through innovation and technology transfer using EU funds". This was followed by Mr. Neven Marković, secretary of the Association of Innovators Zagreb with the presentation "Commercialization of Innovations" and Mr. Matija Žugec from the Association of Croatian Innovators with the topic "Protection of Intellectual Property". The plenary lectures were concluded with a presentation by Prof. Dubravko Rogale Ph.D. "Development and importance of innovations at the Faculty of Textile Technology". There were also six invited presentations: Prof. Ante Jukić Ph.D., dean of the University of Zagreb Faculty of Chemical Engineering and Technology "Academic entrepreneurship and transfer of innovations to industry at the Faculty of Chemical Engineering and Technology"; Boris Ćosić, representative of the Centre for Technology Transfer Ltd. of the University of Zagreb, Faculty of Mechanical Engineering and Shipbuilding "The strategic importance of technology transfer for universities / faculties dedicated to the commercialization of academic knowledge - an example of the Center for Technology Transfer at the Faculty of Mechanical Engineering and shipbuilding"; Prof. Nedjeljko Perić Ph.D., from the Nikola Tesla Innovation Centre of the University of Zagreb, Faculty of Electrical Engineering and Computing "Key assumptions and factors for the development of innovations and their transfer to the economy"; representative of the company Čateks dd Nino Kerman "Presentation of the IRI2 project: Development of multifunctional non-combustible fabric for dual purpose"; Tomislav Pokrajčić from the company Jel-Tom doo "Jel-Tom's innovative solutions for the Protection of the marine environment through "Wave Breakers" and "Box Barriers" and others (Croatian patents)"; assoc. prof. Angel Terziev Ph.D., from the Technical University of Sofia "Presentation of the Erasmus + Knowledge Alliance project - ICI-TEX courses-new opportunities for e-learning digital skills for the textile and clothing industry".

At the TZG symposium, 138 participants from the national and international academic community, the economic sector, government institutions, and the field of professional education presented 39 papers in the form of posters and oral presentations. 500 participants followed the meeting online via the official TZG 2022 website and You Tube channel. The international visibility of the TZG 2022 symposium is provided by collaboration and publication of the papers in journals published by MDPI. Other full papers are available in digital form in the TZG 2022 Book of Proceedings. All papers presented at the TZG 2022 symposium are available in digital form in the TZG 2022 Book of Abstracts. As a part of strengthening textile science and the profession, 8 selected papers will be published in the next two editions of the national journal Tekstil.

Guest Editors: Snježana Firšt Rogale & Ana Sutlović