



Amsterdam UMC –
Location VUmc
Netherlands



University Medical
Centre Utrecht
(UMCU), Netherlands



German Federal Institute
for Risk Assessment
(BfR) Germany



The Research and
Development National
Institute for Textiles and
Leather (INCOTP)
Romania



Bundesanstalt für
Materialforschung und -
prüfung (BAM)
Germany



Italian National Agency for
New Technologies,
Energy and Sustainable
Economic Development
(ENEA) Italy



Federal Institute for
Occupational Safety and
Health (BAuA) Germany



Ideaconsult Ltd. (IDEA)
Bulgaria



Norwegian Institute of
Public Health (NIPH)
Norway



Health and Environment
Alliance (HEAL) Belgium



Fraunhofer-Center für
Silizium-Photovoltaik
(CSP)
Germany



European Research
Services (ERS) Germany



Umweltbundesamt (UBA)
Germany

Horizon 2020 Call: H2020-SC1-BHC-2018-2020
(Better Health and care, economic growth and sustainable health systems)
Topic: SC1-BHC-36-2020; Type of action: RIA.

Project Title: Understanding human exposure and health hazard of micro- and nanoplastic contaminants in our environment, acronym: POLYRISK.

POLYRISK aims at unravelling the risks of microplastic and nanoplastic particles (MNP) that are ubiquitous in our environment and are likely to be entering the human body via inhalation and ingestion. The most bioavailable low-micron and nano-sized MNP pose the biggest analytical challenges or today's analytical chemists. Occupational exposure of workers to fibrous MNP can indeed lead to granulomatous lesions, causing respiratory irritation, functional abnormalities and flock worker's lung.

The consortium uniquely brings together 15 partners from 7 countries with interdisciplinary experience and know-how on quality controlled chemical analyses of MNP and additives, intestinal and respiratory toxicity models, human exposure epidemiology, immunotoxicology and real-life high-exposure studies.

POLYRISK's novel human risk assessment strategy is based on mechanistic reasoning and pragmatically accommodates the complexity of the MNP toxicant class. Building with ground breaking science, stakeholder engagement and strong communication, POLYRISK aims to rapidly reduce current MNP risk uncertainties and support EU efforts to ensure public health is adequately protected from the potential risks of MNP pollution.

INCOTP Bucharest, Romania is involved in 6 project work packages and coordinates a task within WP 3 - EXPOSURE, BIOAVAILABILITY AND HEALTH EFFECTS OF MNP IN REAL LIFE HUMAN STUDIES which has as the main objective to assess textile fibre workplace exposure by collecting air samples in synthetic textile production plants, representing four sectors of fibre processing: fibre spinning, non-woven, woven and garment-makings. Biological samples (nasal lavages and blood) from textile workers who are exposed to inhalation of plastic particles will be collected according to the experimental plan agreed between the partners. INCOTP is responsible for the conduct of the human study (including all ethical approvals) and collection of biological tissues and analytical work to assess effects on the immune system). MNP exposure and immune system markers will be measured using established procedures.

In order to optimise synergies and avoid overlaps between the projects selected for funding from the call SC1-BHC-36-202 (Micro- and nano-plastics in our environment: Understanding exposures and impacts on human health, projects IMPTOX, POLYRISK,



AURORA, PLASTICSFATE and PLASTICHEAL), formed the cluster *European Cluster on Health Impacts of Micro- and Nanoplastics*. The cluster will endeavour to harmonise communication and dissemination activities as much as possible to maximise the impact. The cluster will collaborate with the JRC to enhance its impact.

Project information: <https://polyrisk.science/>

<https://twitter.com/PolyriskScience>

INCOTP contact: e.visileanu@incdtp.ro

October 21-22,
2021

Online

TEXTEH X

INTERNATIONAL CONFERENCE ON TEXTILES AND CONNECTED R&D DOMAINS

Bucharest, Romania, 21-22 October 2021

CALL FOR PAPERS – FINAL ANNOUNCEMENT

The 10th International Conference TEXTEH 2021

The 10th International Conference TEXTEH 2021 represents a prestigious International Conference in the field of textiles and connected industries, organized online by The National Research and Development Institute for Textiles and Leather, Bucharest, Romania, during 21-22 October 2021. With a tradition of 16 years, International Conference TEXTEH brings together scientists, researchers, students and stakeholders from all around the world, in order to share their theoretical and practical knowledge in various disciplines, exchange scientific ideas, expand scientific cooperation and facilitate new valuable partnerships.

Based on previous scientific achievements, successful international recognition by inclusion of the TEXTEH previous editions' proceedings in international databases, as well as on rigorous peer review criteria, TEXTEH X aims to inspire future research projects, and to attract and involve companies, universities and public authorities in collaborative partnerships focused on economical and societal problems of national and international interest.

Conference Topics:

- Advanced Textile Materials and Technologies
- Nanomaterials and Electrospinning
- Industry, Education and Digitalisation
- Biomaterials and Biotechnologies
- Circular Economy
- Security and Aeronautics
- Innovative systems, Technologies and Quality Assurance

TEXTEH X 2021 Secretariat:

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www.textehconference.ro

Abstract submission:

The deadline for the submission of the abstract papers is **July 30, 2021 (EXTENDED)**. Access the our website to download the extended abstracts template for the 10th edition of the International Conference TEXTEH. Authors are requested to submit Abstracts via e-mail address: texteh@incdtp.ro no later than July 30, 2021.

Conference FEE:

	Before September 30, 2021	After September 30, 2021
Participant Students and Phd students	125 euro 50 euro	150 euro 75 euro

Important dates:



Scientific Committee

of the 10th International Conference TEXTEH 2021 benefits from the expertise of the following scientists with international recognition and excellent scientific track record:
Carmen Ghituleasa, General Manager INCOTP, Romania
Alina Popescu, Scientific Director INCOTP, Romania
Alexandra Ene, President of Scientific Council INCOTP, Romania
Sabina Olaru, Editor in Chief of Industria Textila journal, INCOTP, Romania
Lucian-Ionel Cioca, Lucian Blaga University of Sibiu, Romania
Daniela Stelescu, INCOTP-ICPI, Romania
Bahar Basim, University of Florida, USA
Braz Costa, General Manager CITEVE, Portugal
Xianyi Zeng, Ecole Nationale Supérieure des Arts et Industries Textiles (ENSAIT), France
Luis Almeida, University of Minho, Portugal
Zoran Stjepanović, University of Maribor, Slovenia
Alexandra De Raeve, HOGENT University of Applied Science and Arts, Belgium
Lubos Hes, Technical University of Liberec, Czech Republic
Aminoddin Hajj, Yazd University, Yazd, Iran
Simona Di Gregorio, University of Pisa, Italy
Enrique Montiel Parreño, Vesica Piscis Footwear, Spain
Dimosthenis Papakonstantinou, CRE.TH.DEV, Greece
Adnan Mazari, Technical University of Liberec, Czech Republic
António Dinis, University of Minho - TecMinho, Portugal
Miguel Ângelo Carvalho, University of Minho - TecMinho, Portugal
Anton Fica, "Politehnica" University of Bucharest, Romania
Carmen Loghin, Pro-rector, Faculty of Industrial Design and Business Management, Technical University "Gh. Asachi", Iasi, Romania
Mariana Ursache, Dean, Faculty of Industrial Design and Business Management, Technical University "Gh. Asachi", Iasi, Romania
Daniela Stelescu, INCOTP-ICPI, Romania
Maria Sönmez, INCOTP-ICPI, Romania

Organizing Committee:

Carmen Ghituleasa, General Manager INCOTP, Romania
Alina Popescu, Scientific Director INCOTP, Romania
Alexandra Ene, President of Scientific Council INCOTP, Romania
Sabina Olaru, Editor in Chief Industria Textila journal, Romania
Andreja Rudolf, University of Maribor, Slovenia
Simona Vasile, HOGENT University of Applied Science and Arts, Belgium
Ana Dias, University of Minho - TecMinho, Portugal
Mohammad Khajeh Mehrizi, Textile Engineering Department, Yazd University, Iran
Mădalin Ionita, Magurele Science Park, Romania
Carmen Mihai, INCOTP, Romania
Cristina Grosu, INCOTP, Romania
Adrian Salistean, INCOTP, Romania
Constantin Dragomir, Site Administrator INCOTP, Romania
Florin Prisecaru, Graphic Designer INCOTP, Romania
Cosmina Prisecaru, INCOTP, Romania

All the accepted papers will receive unique DOI number, needed for the recognizing in the International databases and the TEXTEH X proceedings will be submitted for inclusion/indexing in international databases such as CrossRef, SCOPUS, EBSCO, ProQuest, Index Copernicus etc.

www.textehconference.ro