



2ND INTERNATIONAL SCIENTIFIC AND TECHNICAL CONFERENCE
INFRASTRUKTURA KRYTYCZNA MIAST
CRITICAL INFRASTRUCTURE OF CITIES



SADECKIE WODOCIĄGI®

BEZPIECZEŃSTWO FUNKCJONOWANIA INFRASTRUKTURY KOMUNALNEJ
SAFETY OF MUNICIPAL INFRASTRUCTURE FUNCTIONING

To Whom It May Concern

We heartily invite you to the Second International Scientific and Technical Conference 'Critical Infrastructure of Cities' which will be held on October 6-8, 2021 in Rytko near Nowy Sącz.

The subject of the conference is the current challenges and dangers for the functioning of the critical infrastructure of cities. The planned topics will include:

- Cybersecurity and terrorists threats, as well as critical points in the security of critical infrastructure functioning
- Inter-branch connections and dependences of municipal infrastructure systems
- Exploitation of municipal infrastructure systems in normal conditions and crisis situations
- Technology and materials, versus the safety of municipal infrastructure functioning.

The prepared presentations combine knowledge and experience with forward-looking technical solutions. The conference is a place where the latest scientific achievements and modern technical solutions in the field of municipal infrastructure are presented. It is worth coming and joining the group of participants. In addition, the interdisciplinary nature of the exchange of views and experiences has a positive dimension and invaluable value, it enables the discussion of many key issues and is also a method of mutual education for many environments

Our first conference, which took place in 2018, was attended by 115 participants. During three days 44 papers were delivered. Interesting discussion panels were also held during the seven sessions. The participants of the event praised not only its high level, but also the location of the project. A charming and exchange-friendly conference venue is located in Rytko - a beautifully situated mountain town in Beskid Sądecki, in the picturesque Poprad valley.

We hope that this time we will also meet the expectations of the participants, and that the Scientific and Technical Conference 'Critical Infrastructure of Cities' will have its place in the calendar of important industry events.

Program of the event and information regarding applications can be found on website: www.infrastrukturakrytyczna.com.pl

Kazimierz Kudlik
 Chairman
 of the Organizing Committee

Tadeusz Frączek
 Chairman of the Board
 of Nowy Sącz Waterworks

Ph.D., D.Sc., Eng. Stanisław M. Rybicki, prof. CUT
 Cracow University of Technology

HONORARY PATRONAGE:



SCIENTIFIC PATRONAGE:



MEDIA PATRONAGE:



2ND INTERNATIONAL SCIENTIFIC AND TECHNICAL CONFERENCE INFRASTRUKTURA KRYTYCZNA MIAST CRITICAL INFRASTRUCTURE OF CITIES

October 6-8, 2021 Nowy Sącz – Rytro – Hotel Perła Południa – Beskid Sądecki, Poland

SUBSTANTIVE PRESENTATIONS /open list/

- ANALYSIS OF WATER TEMPERATURE CHANGES IN A SELECTED PART OF THE WATER SUPPLY SYSTEM IN THE LIGHT OF THE SAFETY OF THE FUNCTIONING OF CRITICAL INFRASTRUCTURE IN THE PRESENCE OF CLIMATE CHANGES
- ENSURING THE SAFETY OF COLLECTIVE WATER INTAKE AND DISTRIBUTION SYSTEM
- SAFETY ELEMENTS FOR THE FUNCTIONING OF RAIN WATER SYSTEM
- EVOLUTION OF LEGAL PROTECTION OF WATER RESOURCES AND INTAKES IN POLAND
- INTELLIGENT MUNICIPAL INFRASTRUCTURE OF MODERN AGGLOMERATIONS
- INTELLIGENT (CRITICAL) INFRASTRUCTURE OF WATER SUPPLY NETWORK FOR COLLECTIVE WATER SUPPLY SYSTEMS – ASSUMPTION AND SELECTION OF IT AND HARDWARE SOLUTIONS
- HOW TO MEASURE CYBERSECURITY AND RELIABILITY FROM THE PERSPECTIVE OF AN ENGINEER AND TECHNICIAN AND HOW TO MAKE IT MANAGEABLE IN THE EYES OF MANAGER OR DIRECTOR? THE DEVELOPMENT OF PROFESSIONAL QUALIFICATIONS IN BUILDING AN INTEGRATED COMPANY CYBERSECURITY PROGRAM
- BENEFITS, DRAWBACKS AND FACILITIES OF USING RAIN GARDENS
- HEAVY METALS IN SURFACE WATER USED FOR COLLECTIVE WATER SUPPLY ON THE EXAMPLE OF THE DUNAJEC RIVER
- MICROPLASTICS IN HOUSEHOLD COMPOSTS AS A BARRIER TO GOZ DEVELOPMENT
- MOBILE LABORATORY AS A TOOL SUPPORTING THE SAFETY OF COLLECTIVE WATER SUPPLY SYSTEMS
- POSSIBILITIES OF ASSESSMENT OF ENVIRONMENTAL AND SOCIAL RISK IN MUNICIPAL WASTE MANAGEMENT TECHNOLOGIES
- NANOPARTICLES IN SURFACE WATERS
- NEW TARGETS FOR THE RECYCLING OF MUNICIPAL WASTE AS INDICATORS FOR MONITORING THE CIRCULAR ECONOMY (GOZ) IN COMMUNAL MUNICIPAL WASTE MANAGEMENT SYSTEMS
- PROTECTION OF CRITICAL INFRASTRUCTURES USING THE EXAMPLE OF THE GERMAN WATER ECONOMY
- RENEWABLE ENERGY SOURCES AS AN ELEMENT OF ENERGY SECURITY FOR SMART CITIES
- FROM WASTE TO NANOPARTICLES
- CONFIDENCE AND RELIABILITY OF SCIENTIFIC RESEARCH
- RELATIONSHIPS AND DEPENDENCIES OF CRITICAL INFRASTRUCTURE SYSTEMS – OPPORTUNITIES AND THREATS IN PROOFING OF MUNICIPAL INFRASTRUCTURE
- PRACTICAL APPLICATIONS FOR THE USE OF THE MICROTOX SYSTEM FOR EPIDEMIC / TOXICOLOGICAL SAFETY
- STRATEGIES FOR RECOVERING DRINKING WATER FROM SEWAGE - POSSIBILITIES AND LIMITATIONS
- TOXICITY OF WATER DESINFECTION BY-PRODUCTS
- THE IMPACT OF STREET CLEANING AND WASTE QUALITY ON CHANGES IN THE NATURAL ENVIRONMENT
- CONTEMPORARY THREATS TO CRITICAL INFRASTRUCTURE OBJECTS
- USE OF MOBILE DISTRIBUTION POINT OF THE TELEINFORMATIC INFRASTRUCTURE (MPDIT) TO SECURE CITY KEY INFRASTRUCTURE
- DETECTION AND LOCATION OF LEAKS IN THE WATER SYSTEM WITH THE USE OF ARTIFICIAL NEURAL NETWORKS
- THREATS OF ENVIRONMENTS RESULTING FROM THE PRESENCE OF RESIDUES OF SELECTED PHARMACEUTICALS AND MICROPLASTIC IN WATER
- APPLICATION OF REMOTE WATER METER READING SYSTEMS TO MINIMIZE WATER LOSS ON THE EXAMPLE OF SĄDECKIE WODCIĄGI
- APPLICATION OF X-RAY CRYSTALOGRAPHY TO ASSESS THE RISK OF DRINKING WATER CONTAMINATION WITH SELECTED METALS

TECHNICAL-SEMINARY WORKSHOPS

- SECURITY OF CRITICAL INFRASTRUCTURE IN COMMUNAL SYSTEMS CONTROLLING TECHNOLOGICAL PROCESSES
ASTOR, Kraków
- FIELD DATA ACQUISITION, ANALYSIS AND TREND STUDY BASED ON SPATIAL DATA
Esri Polska Sp. z o.o.
- USING MODEL-BASED SYSTEMS ENGINEERING (MBSE) TO DEAL WITH COMMON CYBERSECURITY CHALLENGES IN THE DESIGN OF BUILD IN CONTROL SYSTEMS
Oprogramowanie Naukowo-Techniczne Sp. Z O.O. Sp. K., Kraków

PROMOTIONAL PRESENTATIONS OF COMPANIES /open list /

- Presentation of innovative technical and technological solutions

CONFERENCE ORGANIZER



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