

**10th International
Professional and Scientific Conference**



PROGRAMME

16-19 September 2026, Croatia

WEDNESDAY 16 September 2026

16:00 - 19:00

Authors and participants registration

20:30 - 23:00

Welcome cocktail party – Barbara Bar

THURSDAY 17 September 2026

07:30 - 09:00

Authors and participants registration

09:00 - 10:00

Opening ceremony – room Veliki Donat

10:00 - 11:00

INVITED PAPERS – room Veliki Donat

11:00 - 11:30

Coffee break

11:30 - 13:00

Section 1
OCCUPATIONAL
SAFETY
room Veliki Donat

Section 2
OCCUPATIONAL
HEALTH
room Mali Donat

Section 3
ENVIRONMENTAL
PROTECTION I
room Bura

13:00 - 14:30

Lunch break

14:30 - 16:00

Section 4
MULTIDISCIPLINARY
ASPECT
room Veliki Donat

Section 5
ERGONOMICS
room Mali Donat

Section 6
ENVIRONMENTAL
PROTECTION II
room Bura

16:00 - 16:30

BOOK PRESENTATION – Josipa Nakić
Occupational Kinesiology – Static and Dynamic Workloads and
Work Ability
room Veliki Donat

16:30 - 17:00

Coffee break

17:00 - 18:30

ROUND TABLE – Topic: “Digital Footprint and Mental Health in
the Business Environment”
room Veliki Donat

18:30 - 19:30

POSTER PRESENTATION – lobby of the room Veliki Donat

20:30

Conference dinner – Hotel Donat Restaurant

FRIDAY 18 September 2026

09:30 - 10:30	INVITED PAPERS – room Veliki Donat		
10:30 - 11:00	BOOK PRESENTATION – Marinko Đ. Učur Labour Law Status of Port Workers room Veliki Donat		
11:00 - 11:30	Coffee break		
11:30 - 13:00	Section 7 FIRE AND EXPLOSION PROTECTION room Veliki Donat	Section 8 TECHNICAL – TECHNOLOGICAL FACTORS room Mali Donat	Section 9 SOCIAL AND HUMANISTIC ASPECTS I room Bura
13:00 - 14:30	Lunch break		
14:30 - 16:00	ROUND TABLE Topic: “Changes in Occupational Safety Regulations – Direction of Development and Expectations in Implementation” room Veliki Donat	WORKSHOP ACTIVE BREAKS FOR OFFICE WORKERS: A PRACTICAL WORKSHOP room Mali Donat	Section 10 SOCIAL AND HUMANISTIC ASPECTS II room Bura
16:00	Closing ceremony		

SATURDAY 19 September 2026

09:00 - 13:00	HALF – DAY EXCURSION Details/route: official OSH 2026 page
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THURSDAY 17 September 2026

Room
Veliki Donat

INVITED PAPERS

THURSDAY
17 Sept. 2026

10:00 - 11:00

Moderators: Lidija Jakšić, Zvonimir Matusinović

1. ELVIS HOZDIĆ: **FROM DIGITALIZATION AND CYBERNATION TO COGNITIZATION: A HUMAN-CENTRIC APPROACH TO NEXT-GENERATION OCCUPATIONAL SAFETY IN CYBER-PHYSICAL PRODUCTION SYSTEMS**

2. ANDREA ŠIROLA, KATA IVANIŠEVIĆ, BOJAN MILETIĆ, ŽELJKO JOVANOVIĆ: **ASSOCIATION BETWEEN SHIFT WORK AND SLEEP QUALITY AMONG CROATIAN NURSES AND NURSING TECHNICIANS**

Section 1

OCCUPATIONAL SAFETY

THURSDAY
17 Sept. 2026

Room
Veliki Donat

11:30 - 13:00

Moderators: Evica Jovanović, Marko Ožura

1. IVA ČEHAK: **LADDERS AS WORK EQUIPMENT: TECHNICAL AND SAFETY ASPECT**

2. IVA ČEHAK: **DIGITAL ADR DOCUMENTATION AND THE ROLE OF THE SAFETY ADVISER**

3. GORDANA JAKŠIĆ: **WORKS AND RESPONSIBILITIES ON THE CONSTRUCTION SITE WITH CODE-REQUIRED CONSTRUCTION SITE TESTING AND INSPECTION**

4. MARKO OŽURA, ANA MENDEŠ: **ASSESSMENT OF TREE VITALITY FOR PEDESTRIAN SAFETY: A CASE STUDY OF ADŽIJA SQUARE IN KARLOVAC**

5. DRAGICA LIČKO, JELENA IVANČAN: **INTEGRATION OF CONTRACTOR MANAGEMENT AND MAINTENANCE MANAGEMENT: A SYSTEMATIC HSE APPROACH IN THE INA GROUP**

6. MIRNA JAGODANOVIĆ: **CHALLENGES AND OPPORTUNITIES OF RISK ASSESSMENTS**

7. ANĐELA JEVTIĆ, ALEKSANDAR SIBINOVSKI, EVICA JOVANOVIĆ: **APPLICATION OF THE HEART TECHNIQUE FOR HUMAN ERROR ASSESSMENT IN HIGH-RISK WORK ACTIVITIES**

8. ADELA ŠAKO: **META PROGRAMS IN PRACTICE: ENHANCING EMPLOYEE SAFETY BEHAVIOR**

9. ANTUN ŠKRINJAR: **NON-FORMAL EDUCATION AS PROOF OF PROFESSIONAL COMPETENCE OF WORKERS PERFORMING JOBS WITH SPECIAL WORKING CONDITIONS**

Section 2

Room
Mali Donat

OCCUPATIONAL HEALTH

THURSDAY
17 Sept. 2026

11:30 - 13:00

Moderators: Sonja Damjanović Dešić, Josipa Nakić

1. SONJA DAMJANOVIĆ DEŠIĆ, ZLATKO ŠARIĆ, TINA MUDROVČIĆ: **NATIONAL REGISTRIES OF WORKERS OCCUPATIONALLY EXPOSED TO CARCINOGENIC, MUTAGENIC AND REPROTOXIC SUBSTANCES AND ANTINEOPLASTIC DRUGS IN CROATIA**
2. ZLATKO ŠARIĆ, SONJA DAMJANOVIĆ DEŠIĆ, TINA MUDROVČIĆ: **REGISTRY DATA ON WORKERS EXPOSED TO BIOLOGICAL AGENTS IN THE REPUBLIC OF CROATIA**

3. IVA BRKIĆ, JOSIPA NAKIĆ, MARIJA BUBAŠ: **PREVALENCE OF MUSCULOSKELETAL DISORDER SYMPTOMS AMONG NURSES IN GOSPIĆ**
4. SANDRA HELENO-SERRANO, MARTA AMARAL, CARLA SANTOS, RUI ISIDORO, ANA DIAS: **PSYCHOSOCIAL RISKS AND QUALITY OF LIFE AMONG NURSES: EVIDENCE FROM A PORTUGUESE HOSPITAL**
5. BERNARDA ŠUŠTARIĆ: **ACTIVE BREAK AT THE WORKPLACE – AN EXERCISE PROGRAMME FOR OFFICE WORKERS OF THE PAPER**

Section 3

Room Bura

ENVIRONMENTAL PROTECTION I

THURSDAY
17 Sept. 2026

11:30 - 13:00

Moderators: Draženka Birkić, Nenad Mustapić

1. NENAD MUSTAPIĆ, RENE ŠLAT, TONI KRALJ: **ANALYSIS OF SOME POSSIBILITIES OF USING HEAT PUMPS IN PRODUCTION DECARBONIZATION PROCESSES**
2. NENAD MUSTAPIĆ, TONI KRALJ: **THERMODYNAMIC ANALYSIS OF COMBINED HEAT AND POWER ORGANIC RANKINE CYCLE CONFIGURATIONS FOR FLEXIBLE ENERGY SUPPLY**

3. IVANA ILIĆ KRSTIĆ: **YOUNG PEOPLE'S ATTITUDES TOWARD CLIMATE CHANGE IN SERBIA: A CASE STUDY OF STUDENTS AT THE FACULTY OF OCCUPATIONAL SAFETY IN NIŠ**
4. DRAŽENKA BIRKIĆ, DRAGA MIHALIĆ, PATRICIA KRNIC: **THE ANALYSIS OF THE INDICATORS OF ENVIRONMENTAL IMPACT IN TOURISM IN ENVIRONMENTAL IMPACT STUDIES**
5. ASMIRA BEĆIRAJ, LEJLA BEĆIRAJ: **THE ROME II REGULATION – ENVIRONMENTAL DAMAGE**

Section 4

Room
Veliki Donat

MULTIDISCIPLINARY ASPECT

THURSDAY
17 Sept. 2026

14:30 - 16:00

Moderators: Adam Stančić, Vedran Vyroubal

1. JÓZSEF ORBÁN, GYULA SZABÓ: **INTEGRATED ORGANISATIONAL RESILIENCE–OCCUPATIONAL SAFETY FRAMEWORK: A MULTIDISCIPLINARY APPROACH, ASSESSMENT OPTIONS AND PILOT RESULTS (N = 88)**
2. LEON VEDENIK: **THE USE OF ARTIFICIAL INTELLIGENCE IN THE OCCUPATIONAL SAFETY AND HEALTH SYSTEMS IN THE REPUBLIC OF SLOVENIA**
3. LIDIJA LJ. JOLESKA BURESKA, CVETANKA T. MITREVSKA, SUZANA ZIKOVSKA, SLOBODAN BUNDALEVSKI, MELITA RISTESKA: **THE ROLE OF ARTIFICIAL INTELLIGENCE IN DYNAMIC RISK ENVIRONMENTS**
4. ADAM STANČIĆ, VEDRAN VYROUBAL, FILIP ŽUGČIĆ: **INTEGRATION OF IoT, SURVEILLANCE SYSTEMS AND COMPUTER VISION IN WORKPLACE HAZARD DETECTION**
5. ADAM STANČIĆ, VEDRAN VYROUBAL, FILIP ŽUGČIĆ, IVAN MRVUNAC : **APPLICATION OF IoT TECHNOLOGY IN WORK AND PROTECTIVE CLOTHING**

6. VEDRAN VYROUBAL, ADAM STANČIĆ, ZVONIMIR KRALJ, IVAN MRVUNAC: **MESHTASTIC LORA MESH NETWORK AS AN EMERGING PLATFORM FOR OCCUPATIONAL SAFETY AND HEALTH MONITORING IN INFRASTRUCTURE-DEFICIENT ENVIRONMENTS**
7. LEONARDA HALAPIR, BUDIMIR MIJOVIĆ: **APPLICATION OF ARTIFICIAL INTELLIGENCE IN AUTOMATED WOODEN PALLET**
8. ADAM STANČIĆ, VEDRAN VYROUBAL, FILIP ŽUGČIĆ, GABRIEL KAIĆ: **COMPARATIVE ANALYSIS OF DCT-DOMAIN STEGANOGRAPHIC ALGORITHMS FOR NIGHT-TIME JPEG IMAGES**
9. ANTONIA MUDROVČIĆ, TIHANA CEGUR RADOVIĆ, ANDREJA PRIMUŽAK: **GENERATIVE ENGINE OPTIMIZATION AS A NEW STRATEGY IN DIGITAL MARKETING**

Section 5

Room
Mali Donat

ERGONOMICS

THURSDAY
17 Sept. 2026

14:30 - 16:00

Moderators: Sarajko Baksa, Damir Kralj

1. SÉRGIO VALADARES, RUI ISIDORO, PAULA GODINHO, JOÃO PAULO BARROS: **ARTIFICIAL INTELLIGENCE AND PSYCHOSOCIAL RISKS IN THE WORKPLACE: A SURVEY-BASED CASE STUDY AT A PORTUGUESE PORT AUTHORITY**
2. SARAJKO BAKSA, INES BAKSA, VIRNA BAKSA: **PSYCHOPHYSICAL EFFECTS AND ERGONOMIC RISKS OF LOW-FREQUENCY FLICKER IN LED LIGHTING**
3. SANELA PASKAŠ DLUGOŠ, ANDREJA CESAR SLEGOVAC, MARIJA BATAK: **TECHNOLOGICAL DEVELOPMENT OF PROTECTIVE APRONS IN RADIOLOGICAL PROTECTION: THE RELATIONSHIP BETWEEN PROTECTIVE EFFICIENCY AND ERGONOMIC REQUIREMENTS**

4. NATAŠA KOPRIVNIK: **ERGONOMIC DESIGN OF SEDENTARY WORKSTATIONS IN THE PREVENTION OF MUSCULOSKELETAL DISORDERS**
5. LIDIJA RIHAR, MARJAN JENKO, MIRJANA PLEČKO, MAŠA MAMIĆ: **ERGONOMIC RISK CONTROL IN MANUAL ELECTRIC MOTOR ASSEMBLY**
6. MATIJA GRMEK, DAMIR KRALJ, SNJEŽANA KIRIN: **INFLUENCE OF ANTHROPOMETRIC ERRORS ON THE WORKLOAD ASSESSMENT BY THE “NIOSH” METHOD USING A COMPUTER AND INERTIAL MOVEMENT SENSORS**
7. NENO ČABRAJA, DAMIR KRALJ, SNJEŽANA KIRIN: **INFLUENCE OF ANTHROPOMETRIC ERRORS ON THE WORKLOAD ASSESSMENT BY THE “RULA” METHOD USING A COMPUTER AND INERTIAL MOVEMENT SENSORS**

Section 6

ENVIRONMENTAL PROTECTION II

THURSDAY
17 Sept. 2026

Room Bura

14:30 - 16:00

Moderators: Tihana Dekanić, Gorana Lipnjak

1. SARA PEKIĆ, MIRSAĐA ĆEHIĆ: **CHALLENGES OF SUSTAINABLE WASTE MANAGEMENT: AN INTERDISCIPLINARY APPROACH TO SOCIAL ASPECTS OF ZAGREB'S TRANSITION**
2. LJUBICA MAKSIMČUK, MIRSAĐA ĆEHIĆ: **THE ŠAGULJE REGIONAL WASTE MANAGEMENT CENTER: A STRATEGIC PILLAR FOR REGIONAL SUSTAINABLE DEVELOPMENT**
3. NATALIJA PEJNOVIĆ, JASNA MESARIĆ: **WASTE MANAGEMENT IN A HEALTHCARE INSTITUTION**

4. GORANA LIPNJAK: **MARINE WASTE MANAGEMENT A PREREQUISITE FOR A HEALTHY LIFE AND ENVIRONMENT**
5. TIHANA DEKANIĆ, ANITA TARBUK, SANDRA FLINČEC GRGAC, TANJA PUŠIĆ: **SOIL-REMOVAL EFFICIENCY IN ECO-FRIENDLY WASHING OF FUNCTIONALISED COTTON/ POLYESTER FABRICS**
6. MARKO OŽURA, MONIKA STRAH, LIDIJA JAKŠIĆ, VEDRAN SLIJEPEČEVIĆ: **PHASING OUT LEAD SHOT AS A MEASURE OF WETLAND AND ENVIRONMENTAL PROTECTION**

Room
Veliki Donat

ROUND TABLE

THURSDAY
17 Sept. 2026

17:00-18:30

Moderators: Igor Salopek

Topic:

"Digital Footprint and Mental Health in the Business Environment"

Presenters:

Igor Salopek
Mitja Ružojčić
Ivana Todorčić Laidlaw
Iva Vukojević

Moderators: Anamarija Kirin, Filip Žugčić

OCCUPATIONAL SAFETY

1. NENAD LORKOVIĆ, MIRNA ŠPEHAR: **SAFETY ANALYSIS OF AN INCIDENT THAT OCCURRED DURING DISMANTLING OF STEAM SUPPLY PIPE**
2. SANJA RENKA, ARIANA FAJDETIĆ, GORAN ŠARIĆ: **ENSURING OCCUPATIONAL HEALTH AND SAFETY IN CHEMICAL LABORATORIES**
3. MARIJANA BLAŽIĆ, INES CINDRIĆ, VEDRANA PLEŠ, ELIZABETA ZANDONA, PAULA KRALJ-VRSALOVIĆ: **SPECIFIC OCCUPATIONAL HAZARDS IN HOTEL KITCHENS AND EFFECTIVE WORKPLACE SAFETY MEASURES**
4. IVO ŠAINA: **A SECOND LOOK AT OCCUPATIONAL SAFETY MANAGEMENT IN ENTERPRISES: A PTM-i HEAT-MAP METHOD FOR STAKEHOLDER-BASED MONITORING**
5. SANJA MATEČIĆ MUŠANIĆ, SANDRO ZOVKO: **NEAR-MISS REPORTING, INTERNAL AUDIT AND MANAGEMENT REVIEW: AN INTEGRATED SAFETY MANAGEMENT MODEL**

OCCUPATIONAL HEALTH

1. SLOBODAN T. BUNDALEVSKI, LIDIJA LJ. BURESKA, CVETANKA T. MITREVSKA, SUZANA Z. ZIKOVSKA: **DIFFERENCES IN THE DEGREE OF EXPOSURE OF NURSES TO OCCUPATIONAL RISKS BETWEEN PUBLIC AND PRIVATE HEALTH INSTITUTIONS IN THE REPUBLIC OF NORTH MACEDONIA**
2. DINO OBRANOVIĆ, NIKOLA ŠIMUNIĆ, TIHANA KOSTADIN, JOSIP HOSTER, TONI KRALJ: **ASSESSMENT OF GENERATION AND EXPOSURE TO ASA FILAMENT DUST PARTICLES DURING FDM 3D PRINTING: MICROSCOPIC ANALYSIS AND OCCUPATIONAL SAFETY RECOMMENDATIONS**
3. JASNA HALAMBEK, EVA ŠURBEK, LIDIJA JAKŠIĆ, FILIP ŽUGČIĆ: **VOLATILE ORGANIC COMPOUNDS IN THE AUTOMOTIVE INDUSTRY: SOURCES OF EMISSIONS AND IMPACT ON WORKERS' HEALTH**
4. ANA DIAS, CARLA SANTOS: **A NOTE ON PROFESSIONAL RISKS IN AGRICULTURAL TRACTOR OPERATIONS**
5. TAMARA FEHERVARI, MARKO PRAHOVIĆ, JURICA KAPTALAN: **OCCUPATIONAL HEALTH AND SAFETY RISK ASSESSMENT FOR THE ORGANIZATION OF SPORTS COMPETITION**

6. MAŠA MAMIĆ, MATEJ ŠTEFANIĆ: **ASSESSMENT OF INDOOR AIR QUALITY IN EDUCATIONAL INSTITUTIONS BASED ON AIRBORNE PARTICLE NUMBER CONCENTRATIONS**
7. KATARINA ĐURIĆ et al.: **THE IMPACT OF NIGHT WORK ON THE HEALTH OF NURSES**
8. SANJA KRIŠTO, IVANA KOVAČIĆ, KAROLINA VIŽINTIN, VANJA MARKOVIĆ, BOJAN MATIJEVIĆ: **CHALLENGES OF EMERGENCY RECEPTION IN CONDITIONS OF INCREASED SYSTEM LOAD – MAJOR ACCIDENTS AND DISASTERS**
9. BOJAN MATIJEVIĆ: **RISK ASSESSMENT OF CHEMICAL HAZARDS IN PLANT-BASED BEVERAGES**

TECHNICAL - TECHNOLOGICAL FACTORS

1. MIRNA ŠPEHAR, MATIJA MIGALIĆ, ZLATKO ŠABANAGIĆ, NIKOLA ŠIMUNIĆ: **FINITE ELEMENT ANALYSIS OF MUCOSA-SUPPORTED DENTAL GUIDES FOR SAFER IMPLANT SURGERY**
2. MATIJA MIGALIĆ, MIRNA ŠPEHAR, DINO OBRANOVIĆ, NIKOLA ŠIMUNIĆ: **SAFETY ASSESSMENT OF INDUSTRIAL AND HOMEMADE WOOD SPLITTERS: A COMPARATIVE STUDY**
3. ERMIN BAJRAMOVIĆ, DAMIR HODŽIĆ, BELMA ISLAMOVIĆ ČAVKIĆ, FADIL ISLAMOVIĆ: **SAFETY ANALYSIS OF WORKING MACHINE CABS USING EXPERIMENTAL AND NUMERICAL METHODS**
4. JOSIP HOSTER, ANDRIJA BERISLAVIĆ: **IMPROVEMENT OF SAFETY AGAINST SPLITTING OF THE GARDEN TOOL WOODEN HANDLE WITH GLASS FIBRE-EPOXY REINFORCEMENT**
5. FILIP ŽUGČIĆ, ANAMARIJA KIRIN, ADAM STANČIĆ: **PROTECTIVE DEVICES IN ELECTRICAL INSTALLATIONS: APPLICATION AND PREVENTIVE MAINTENANCE AS AN OCCUPATIONAL SAFETY MEASURE**
6. JOSIP MUIĆ, DENIS KOTARSKI: **DEVELOPMENT AND EXPERIMENTAL VALIDATION OF A MECHATRONIC SYSTEM FOR AUTOMATIC INDOOR LIGHT CONTROL IN WORK ENVIRONMENTS**
7. MATEJ ŠTEFANIĆ, MAŠA MAMIĆ: **CFD APPLICATIONS IN OCCUPATIONAL SAFETY: AIRFLOW, VENTILATION AND FIRE ANALYSIS – A REVIEW**
8. BORIS HABULIN, NIKOLA ŠIMUNIĆ, DINO OBRANOVIĆ: **IMPACT ANALYSIS OF THERMAL INSULATION DEGRADATION ON THE OPERATIONAL SAFETY OF EV HIGH-VOLTAGE SYSTEMS**

9. ANAMARIJA KIRIN, FILIP ŽUGČIĆ, VEDRAN VYROUBAL: **PHYSICAL PRINCIPLES AND SAFETY OF INDUCTION COOKTOPS**
10. TENA RISEK, SLAVENKA PETRAK, MAJA MAHNIĆ NAGLIĆ: **DIGITIZATION OF TEXTILE MATERIALS FOR HGSS PROTECTIVE CLOTHING**

ERGONOMICS

1. BLAŽENKA BRLOBAŠIĆ ŠAJATOVIĆ, KSENIJA DOLEŽAL, RENATA HRŽENJAK: **APPLICATION OF ANTHROPOMETRIC MEASUREMENTS IN THE DEVELOPMENT OF PROTECTIVE CLOTHING SIZING SYSTEMS FOR THE IMPROVEMENT OF OCCUPATIONAL SAFETY**
2. TAMARA FEHERVARI, MARKO PRAHOVIĆ, LEON ŠOLČIĆ: **PROTECTIVE SPORTS EQUIPMENT**
3. MAJA MAHNIĆ NAGLIĆ, SLAVENKA PETRAK: **DESIGN OF FUNCTIONAL CLOTHING ELEMENTS BASED ON DYNAMIC ANTHROPOMETRIC ANALYSIS OF DIFFERENT FEMALE BODY TYPES**
4. MAJDA ŠAVOR, SNJEŽANA KIRIN, LIDIJA JAKŠIĆ: **PSYCHOSOCIAL RISKS AMONG WORKERS IN THE TEXTILE INDUSTRY**

ENVIRONMENTAL PROTECTION

1. ANA LUCIJA BOHAČEK, ARIANA FAJDETIĆ, DORIS MATKOVIĆ, ROKA PULJAK, KARLA CVITAK, IVANA KOLIĆ, SANDRA ZAVADLAV: **BY-PRODUCTS IN FOOD 3DP COMPOSITION: TOWARDS ZERO-WASTE FOOD SYSTEM**
2. TIHANA CEGUR RADOVIĆ, LANA VINOVRŠKI, MANUELA ŽAKULA: **CAMPSITES MANAGERS' ENVIRONMENTAL PRACTICES AND ENVIRONMENTALLY RESPONSIBLE BEHAVIOUR IN CROATIA**
3. ŽIVA RAČIĆ, NIKA KREJAN, ANDREJ LAKOVIĆ, VLADIMIR JAKOVLJEVIĆ, MATEJ ŠTEFANIĆ, KATJA MOLAN: **BACTERIOPHAGE T4-FUNCTIONALIZED 3D-PRINTED MEMBRANES FOR REDUCING Escherichia coli SURFACE COLONIZATION: A PILOT STUDY**
4. VEDRANA PLEŠ, MARIJANA BLAŽIĆ, ANTE FILIP JELAVIĆ, INES CINDRIĆ, IRENA BARUKČIĆ JURINA, KARMEN MATKOVIĆ MELKI, ELIZABETA ZANDONA: **SUSTAINABILITY AND FOOD WASTE REDUCTION IN PROFESSIONAL KITCHENS**

FIRE AND EXPLOSION PROTECTION

1. DANIJEL KNEŽEVIĆ, DAMIR KRALJ: **APPLICATION OF THERMAL CAMERAS IN FIRE FIGHTING: FREQUENCY, EFFECTIVENESS AND USER PERCEPTION**
2. FRANKO HORVAT, FILIP ŽUGČIĆ, MARINELA VULIĆ: **ELECTRICAL ENGINEERING ASPECTS OF THE DESIGN, INSTALLATION AND TESTING OF FIRE DETECTION SYSTEMS**

3. MARKO OŽURA et al.: **THE SPARK PROJECT: A MONITORING AND ADAPTATION SYSTEM FOR CLIMATE-RELATED WILDFIRE RISK IN KARLOVAC COUNTY**
4. MARIN MARAS, MANUELA ŽAKULA, MONIKA GRGIĆ: **ORGANIZATION AND FINANCING OF THE FIREFIGHTING SYSTEM IN KARLOVAC**
5. MANUELA ŽAKULA, ZVONIMIR MATUSINOVIĆ, LIDIJA JAKŠIĆ, ROBERT HRANILOVIĆ: **FLAMBLOCKER CF7 IN ELECTRIC VEHICLE FIRE SUPPRESSION: OPERATIONAL TEST RESULTS AND SAFETY IMPLICATIONS FOR FIREFIGHTERS**

SOCIAL AND HUMANISTIC ASPECT

1. DUBRAVKA KRIVAČIĆ, KSENIJA FINK: **OCCUPATIONAL SAFETY AND HEALTH COSTS MANAGEMENT ACCORDING TO COST CENTRES**
2. MISLAV BENIĆ, LAHORKA HALMI: **ERP SYSTEM IMPLEMENTATION – AN EXAMPLE OF A MANUFACTURING COMPANY**
3. PETRA MOVRE, LAHORKA HALMI: **SUSTAINABILITY-INFORMED DECISION-MAKING: A CASE-STUDY OF KAUFAND**
4. ANDREJA PRIMUŽAK, MATEJA PETRAČIĆ, MAJA PRPIĆ: **STRESS MANAGEMENT AS AN INTEGRAL PART OF OCCUPATIONAL SAFETY AND HEALTH IN THE NONPROFIT SECTOR**
5. MATEJA PETRAČIĆ, MARIN MARAS, IVANA KOLIĆ, ROKO KAZIJA, SANDRA ZAVADLAV: **CONSUMER PERCEPTION OF PERSONALIZED DESSERTS PRODUCED BY 3D PRINTING TECHNOLOGY**
6. ZORAN VUČINIĆ, MANUELA ŽAKULA, DAVOR ŠKARICA: **RADIO COMMUNICATION SYSTEMS OF CIVIL PROTECTION IN THE REPUBLIC OF CROATIA**
7. ANGELA JAKŠETIĆ, TIHANA CEGUR RADOVIĆ, MIRJANA CIBULKA: **RESTAURANTS GASTRONOMIC OFFER SATISFACTION IN CROATIA**
8. SLAVEN LULIĆ, ANAMARIJA KIRIN: **PHYSICAL FOUNDATIONS OF A RADIOLOGICAL AND NUCLEAR DISASTER**
9. TOMISLAV ŠEKETA: **HISTORY OF SMOKING AND REGULATION IN THE HOSPITALITY SECTOR OF THE REPUBLIC OF CROATIA**

MULTIDISCIPLINARY ASPECTS

1. ŽELJKO RENDULIĆ, TOMISLAV DUMIĆ, NERA FBIJANIĆ, KRUNOSLAV PINTUR: **WILDLIFE-VEHICLE COLLISIONS ON ROADS OF PLITVICE LAKES NATIONAL PARK**
2. GABRIJEL TOMIČIĆ, DENIS KOTARSKI: **APPLICATION OF ELECTROMYOGRAPHIC SIGNALS FOR REAL-TIME CONTROL OF ROBOTIC SYSTEMS**
3. ISMAR ČORALIĆ, BUDIMIR MIJOVIĆ: **THE ROLE OF ARTIFICIAL INTELLIGENCE IN PLANNING TEMPORARY SHELTER IN THE TERRITORY OF THE CITY OF BIHAĆ**

FRIDAY 18 September 2026

Room
Veliki Donat

INVITED PAPERS

FRIDAY
18 Sept. 2026

09:30 - 10:30

Moderators: Budimir Mijović, Vedran Vyrubal

1. MILIŠA TODOROVIĆ, SNEŽANA ŽIVKOVIĆ, FARIS LEMEŠ, MUHAREM ČUPINA: **THE IMPACT OF ANDRAGOGICAL PRINCIPLES AND WORKER MOTIVATION ON THE EFFECTIVENESS OF TRAINING IN THE FIELD OF OCCUPATIONAL HEALTH AND SAFETY**

2. RUI ISIDORO: **OCCUPATIONAL ACCIDENTS IN THE EUROPEAN UNION, 2013-2023: TRENDS, DIFFERENCES IN REPORTING SYSTEMS AND THE CASES OF PORTUGAL AND CROATIA**

Section 7

Room
Veliki Donat

FIRE AND EXPLOSION PROTECTION

FRIDAY
18 Sept. 2026

11:30 - 13:00

Moderators: Ivan Štedul, Maja Vidović

1. ANA BANOVAČ, MARKO KADIĆ, ŽELJANA BAŠIĆ: **PROFESSIONAL SATISFACTION AMONG CROATIAN FIREFIGHTERS: THE ROLE OF SOCIAL SUPPORT AND COPING STRATEGIES WITHIN THE JD-R FRAMEWORK**

2. LAURA ŠPERNJAK: **FIRE PROTECTION AS A CORE RULE AND INTEGRAL PART OF THE OCCUPATIONAL SAFETY SYSTEM**

3. IVA ČEHAK: **INTEGRATED FIRE ALARM SYSTEM RESPONSE THROUGH MODULES AND BUILDING SAFETY INTERFACES**

4. ERIC ŽGELA, FILIP ŽUGČIĆ: **FIRE PROTECTION OF ELECTRIC FORKLIFTS AND LITHIUM-ION BATTERY CHARGING STATIONS: FIRE RISKS AND PRACTICAL RECOMMENDATIONS**

5. SLAVICA BOGOVIĆ, PATRICIA OSMERIČIĆ: **FUNCTIONAL DESIGN OF A PROTECTIVE FIREFIGHTER COVERALL**

6. DARKO GLUJIĆ, MENSUR FERHATOVIĆ, GORAN VIZENTIN, MARKO OŽURA:

DEVELOPMENT AND EXPERIMENTAL EVALUATION OF A METHODOLOGY FOR INTEGRATING CFD SIMULATIONS INTO VIRTUAL REALITY FOR FIREFIGHTING TRAINING IN SHIP ENGINE ROOMS

7. MAJA VIDOVIĆ, MANUELA ŽAKULA: **TECHNICAL AND OTHER INTERVENTIONS BY FIREFIGHTING UNITS AND THEIR ROLE IN THE CIVIL PROTECTION SYSTEM**

8. IVAN ŠTEDUL, MANUELA ŽAKULA, MARIO FANJAK, MONIKA GRGIĆ: **AGREEMENT AND DISCREPANCIES BETWEEN COUNTRY-REPORTED FOREST-FIRE STATISTICS AND SATELLITE-DERIVED GWIS INDICATORS IN CROATIA, 2002-2024**

Section 8

Room
Mali Donat

TECHNICAL - TECHNOLOGICAL FACTORS

FRIDAY
18 Sept. 2026

11:30 - 13:00

Moderators: Sandra Flinčec Grgac, Anita Tarbuk

1. FADIL ISLAMOVIĆ, ERMIN BAJRAMOVIĆ, BELMA ISLAMOVIĆ ČAVKIĆ, ESAD BAJRAMOVIĆ: **CONTRIBUTION TO THE OPTIMIZATION OF GEOMETRIC - DIMENSIONAL PARAMETERS OF TANKS AND EMERGENCY CONTAINERS IN OIL TERMINALS**
2. FERNANDO CRAVEIRO, RUI ISIDORO, ANTÓNIO CONCEIÇÃO: **CHECKING THE SAFETY AND OPERATIONAL CONDITIONS OF WORK EQUIPMENT IN INTERACTIVE MODULES**
3. SUZANA Z. ZIKOVSKA, LIDIJA LJ. BURESKA, CVETANKA T. MITREVSKA, SLOBODAN BUNDALEVSKI JOVANA O. ZIKOVSKA: **CAUSES OF ACCIDENTS AND PROTECTION MEASURES WHEN WORKING WITH CONVEYORS**
4. NERMIN PALIĆ, MILIŠA TODOROVIĆ, ASMIR HELVIDA: **INTEGRATED ACTIVE AND PASSIVE SAFETY ARCHITECTURE OF INDUSTRIAL BELT CONVEYOR SYSTEMS IN COKE HANDLING OPERATIONS**

5. DOMAGOJ ŠKARICA, DAMIR KRALJ: **SAFETY CHALLENGES IN MAINTENANCE OF ELECTRIC AND HYBRID VEHICLES**
6. ANITA TARBUK, STEFANA BEGOVIĆ, LEA BOTTERI, TIHANA DEKANIĆ: **BIO-INNOVATIVE PRETREATMENT APPROACH FOR COTTON KNIT FABRIC**
7. SANDRA FLINČEC GRGAC, ANA PALČIĆ, HANA ŠTOKOVIĆ: **DEVELOPMENT OF SUSTAINABLE SYSTEMS FOR REDUCING THE FLAMMABILITY OF CELLULOSIC TEXTILES THROUGH THE APPLICATION OF ORGANOPHOSPHORUS COMPOUNDS AND ECO-FRIENDLY CROSSLINKING AGENTS**
8. ELMA VOJIĆ, BUDIMIR MIJOVIĆ: **APPLICATION OF DEEP LEARNING IN HUMAN AND ENVIRONMENTAL SAFETY**
9. AHMET ŽALIĆ, EMIR BAJRAMOVIĆ, FADIL ISLAMOVIĆ, ESAD BAJRAMOVIĆ: **QUALITY REPRODUCTION CYCLE AS A SOURCE OF BUSINESS IMPROVEMENT**

Section 9

Room
Bura

SOCIAL AND HUMANISTIC ASPECTS I

FRIDAY
18 Sept. 2026

11:30 - 13:00

Moderators: Jasmina Bešlagić, Anita Stilin

1. SUAN ISLAMOVIĆ, JASMIN HUŠIĆ: **LEGAL AND NORMATIVE ANALYSIS OF FRAMEWORK DIRECTIVE 89/391/EEC ON OCCUPATIONAL SAFETY AND HEALTH**
2. JASMINA BEŠLAGIĆ, ATIF HODŽIĆ, ESAD BAJRAMOVIĆ, MUAMER PELJTO: **PROTECTION OF MINORS AT WORK IN THE LEGISLATION OF BOSNIA AND HERZEGOVINA**
3. MARINKO Đ. UČUR, CVETAN KOVAČ: **FRAMEWORK AND BASIS FOR REGULATING, IMPLEMENTING, AND MONITORING OCCUPATIONAL SAFETY AND HEALTH IN NAUTICAL TOURISM**

4. ANITA STILIN, MAJA ŠUPUKOVIĆ, EUGENIJA ŠARKO: **EMPLOYEE PERCEPTIONS OF SAFETY CULTURE**
5. KRISTINA TADIĆ, KRISTINA DUNDOVIĆ, SANDRA DEBELJAK: **EXPERIENCES OF WOMEN IN RECRUITMENT PROCESSES FOR THE POSITION OF OCCUPATIONAL HEALTH AND SAFETY SPECIALIST IN THE REPUBLIC OF CROATIA**
6. NENSI JURIČIĆ, SANDRA DEBELJAK, KRISTINA DUNDOVIĆ: **EXPERIENCES OF GENDER DISCRIMINATION AMONG OCCUPATIONAL SAFETY AND HEALTH PROFESSIONALS IN THE WORKPLACE IN THE REPUBLIC OF CROATIA**

Room
Veliki Donat

ROUND TABLE

FRIDAY
18 Sept. 2026

14:30 - 16:00

Moderators: Muhidin Omerdić

Topic:

“Changes in Occupational Safety Regulations
– Direction of Development and Expectations in
Implementation”

Presenters:

Marina Borić
Emanuela Dodić
Sebra Ramić

Room
Mali Donat

WORKSHOP

FRIDAY
18 Sept. 2026

14:30 - 16:00

ACTIVE BREAKS FOR OFFICE WORKERS: A
PRACTICAL WORKSHOP

Workshop facilitators:

Bernarda Šušтариć, Nataša Koprivnik

Section 10

Room
Bura

SOCIAL AND HUMANISTIC ASPECTS II

FRIDAY
18 Sept. 2026

14:30 - 16:00

Moderators: Davor Kalem, Ivana Varičak

1. MARIJA D MIČOVIĆ, ZORAN MARJANOVIĆ: **CBRN THREATS TO CRITICAL INFRASTRUCTURE AS A MODERN SECURITY PROBLEM**
2. ADRIJANA MARINIĆ, IVANA VARIČAK: **THE EFFECTS OF IRREGULAR MIGRATION ON THE ECONOMY AND SUSTAINABLE DEVELOPMENT: ECONOMIC AND SAFETY IMPLICATIONS**
3. DORIJAN TALAJIĆ, MARKO OŽURA: **RESCUE ON FAST-WATER RIVERS AND IN FLOOD CONDITIONS: THE CASE OF KARLOVAC COUNTY**

4. IVAN MIJAILOVIĆ, EVICA JOVANOVIĆ, SRĐAN GLIŠOVIĆ, VESNA NIKOLIĆ: **THE PROPOSAL OF A LEGAL FRAMEWORK ON EQUIPMENT SAFETY USED IN AMUSEMENT PARKS**
5. MONIKA MIKIĆ, DAVOR KALEM: **SAFETY MEASURES IN PRIMARY AND SECONDARY SCHOOLS**
6. DAVOR KALEM, DANIJEL ŽUGEL, MLADEN NOVOSEL: **OPERATIONAL STAFF FOR SAFETY AND CIVIL PROTECTION IN PRIMARY AND SECONDARY SCHOOLS – ROLE AND CHALLENGES**

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