



15th Students' Congress of SCTM

Thursday 29.09.2022

8:30-9:00 Registration

9:00-9:15 Opening of the congress

Time	Participant	Presentation title
9:15-9:45	Rubin Gulabovski Plenary speaker Faculty of Medical Sciences, "Goce Delcev" University, Stip, Macedonia	VOLTAMMETRY-100 YEARS ON
9:45-09:55	COFFEE BREAK	
09:55-10:10	Boris Aleksovski	APPLICATIONS OF ELECTROCHEMISTRY IN CYANOBACTERIAL TAXONOMY:PRELIMINARY FINDINGS
10:10-10:25	Marija Prosheva	POLYMER MODIFIED ELECTROCHEMICAL BIOSENSORS BASED ON SCREEN-PRINTED ELECTRODES FOR PHARMACEUTICAL CONTAMINATED WASTEWATER DETECTION
10:25-10:40	Andrea Petanova	INCORPORATION OF THERMOCHROMIC NANOPARTICLES AND PRODUCTION OF SMART WINDOWS COATINGS VIA MINIEMULSION POLYMERIZATION
10:40-10:55	Sofija Popovska	SYNTHESIS, STRUCTURE AND ELECTRICAL PROPERTIES OF $Gd_{1-x}Er_xFeO_3$ ($x = 0, 0.2$ and 0.4) PEROVSKITES
10:55-11:10	Marija Prosheva	INVESTIGATION OF THE SENSING POTENTIAL OF G/MWCNTs HYBRIDS
11:10-11:20	COFFEE BREAK	
11:20-11:50	Aleksandra Ivanovska Plenary speaker University of Belgrade, Innovation Center of the Faculty of Technology and	CHEMICAL AND ATMOSPHERIC PRESSURE PLASMA TREATMENTS, COST-EFFECTIVE WAYS FOR IMPROVING THE JUTE FABRIC PROPERTIES AND EXTENDING ITS LIFECYCLE

	Metallurgy, Belgrade, Serbia	
11:50-12:05	Ruzica Stevkovska Stojanovska	STATISTICAL PROCESS CONTROL IN HOSIERY PRODUCTION
12:05-12:20	Nina Mladenovic	RICE HUSK MODIFIED BY THE CIRCULAR ECONOMY APPROACH FOR PURIFYING COLORED EFFLUENT FROM THE TEXTILE INDUSTRY
12:20-13:30	LUNCH BREAK	
13:30-14:00	Jana Klopchevska Plenary speaker Institute of Organic Technology, Faculty of Technology and Metallurgy, Ss. Cyril, and Methodius University in Skopje, R. N. Macedonia	THE ROLE OF DIHYDROCHALCONES AND THEIR DERIVATIVES IN THE TREATMENT OF DIFFERENTIATED THYROID CARCINOMA
14:00-14:15	Ivana Todorovska	DESIGN, SYNTHESIS AND QSAR STUDIES OF MONOCARBONYL CURCUMIN ANALOGS AS POTENTIAL ANTI-BREAST CANCER AGENTS
14:15-14:30	Katerina Dragarska	SYMMETRICAL CYCLIC C5-CURCUMINOIDS WITH CYTOTOXIC ACTIVITY AGAINST HT-29 COLON CANCER CELLS: SYNTHESIS, CHARACTERIZATION AND QSAR SCREENING
14:30-15:00	Alkaloid AD Skopje Presentation: Young talents program	
15:00-15:20	COFFEE BREAK	
15:20-15:35	Ana Jovikj	INSTRUMENTAL AND SENSORY CHARACTERISATION OF FUNCTIONAL BISCUITS ENRICHED WITH GRAPE POMACE
15:35-15:50	Despina Kostadinova	QUALITY AND STABILITY OF FOAM IN LAGER BEER



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Friday 30.09.2022

Time	Participant	Presentation title
9:15-9:45	Vibor Roje Plenary speaker University of Zagreb, Faculty of Forestry and Wood Technology, Zagreb, Croatia	ANALYSIS OF METALS AND METALLOIDS IN ENVIRONMENTAL SAMPLES
9:45-10:00	Ivona Sofronievska	IMPLEMENTATION OF PASSIVE SAMPLING AND GC/MS ANALYSIS FOR MONITORING OF POLYCYCLIC AROMATIC HYDROCARBONS IN AMBIENT AIR
10:00-10:15	Vlera Zendeli	DEVELOPMENT AND VALIDATION OF METHOD FOR DETERMINATION OF CHLOROBENZENES IN SOILS
10:15-10:30	Zorica Pechevski	DEVELOPMENT AND VALIDATION OF CHROMATOGRAPHIC METHODS FOR ANALYSIS OF ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS IN HEMP (CANNABIS SATIVA L.)
10:30-10:45	Marinela Cvetanoska	SCREENING FOR PYRROLIZIDINE ALKALOIDS IN HONEY SAMPLES FROM NORTH MACEDONIA
10:45-11:05	COFFEE BREAK	
11:05-11:20	Aleksandar Piperevski	PHENOLIC PROFILE OF MERLOT WINES DETERMINED BY UPLC-ESI-IT- MS
11:20-11:35	Maja Brbevaska	IDENTIFICATION AND QUANTIFICATION OF BIOACTIVE COMPOUNDS IN ESSENTIAL OILS AND PLANT MATERIAL FROM <i>ORIGANUM VULGARE</i> AND <i>ORIGANUM MINUTIFLORUM</i> USING GAS CHROMATOGRAPHY
11:35-11:50	Stefanija Kuzmanovska	IDENTIFICATION AND QUANTIFICATION OF POLYPHENOLIC

		COMPOUNDS IN PLANTS OF <i>BORAGINACEAE</i> FAMILY USING LIQUID CHROMATOGRAPHY
11:50-12:05	Hristina Trisheska	OPTIMIZATION AND VALIDATION OF ETAAS METHOD FOR DETERMINATION OF SELENIUM IN SELECTED FOODS FROM NORTH MACEDONIA
12:05-12:20	Darko Stojanov	SOLID STATE INTERACTIONS OF L-ASCORBIC ACID WITH MAGNESIUM STEARATE
12:20-13:30	LUNCH BREAK	
13:30-14:00	Kristina Pordanova Zehra Kjufliju	Johnson Matthey Presentation: Plant Professional and Leadership Rotational Development Program
14:00-14:30	Vladimir M. Petruševski Plenary speaker Institute of Chemistry, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje, Macedonia	MARATHON EXPERIMENTS ON THE SPONTANEOUS TRANSFER OF GASES THROUGH WATER: A MARATHON EXPERIMENT WITH UNEXPECTED RESULT
14:30-14:45	Goran Rizov	MECHANICAL CHARACTERISTICS OF THE STEEL SHEETS IN DEPENDENCE OF THE CHEMICAL COMPOSITION OF STEEL
14:45-15:00	Ema Mitkovska	EFFECT OF BaTiO ₃ AND MWCNT ON DIELECTRIC PROPERTIES OF FLEXIBLE AND LOW COST TPU COMPOSITE FILMS
15:00-15:20	COFFEE BREAK	
15:20-15:35	Mateja Kubin	ELECTROSPUN PVDF/BaTiO ₃ NANOCOMPOSITES
15:35-15:50	Goran Rizov	MICROSTRUCTURAL AND MECHANICAL CHARACTERIZATION OF ASTM A242 STEEL SHEETS
15:50-16:05	Hari Dimeski	THE APPLICATION OF ESCAPE ROOM ACTIVITIES IN 9 th GRADE CHEMISTRY TEACHING

President of the Scientific Committee

Associate Prof. Natasha Ristovska

President of the Organizing Committee

Ass. Pece Sherovski