

PROGRAM

PONDĚLÍ – MONDAY 10.11.2025 DOPOLEDNE – MORNING	
8:00 – 9:00	Registrace – Registration
9:00 – 9:20	Zahájení konference – Opening of the conference Jakub Ondráček
Soutěž o nejlepší přednášku mladých vědců – Dekati Award	
Session chairman	Pavel Mikuška
9:20 – 9:35	DLOUHODOBÝ VLIV TRANSPORTU NA POZAŘOVOU ÚROVEŇ ZNEČIŠTĚNÍ VE STŘEDNÍ EVROPĚ Radek LHOTKA
9:35 – 9:50	RESOLVING SEASONAL DYNAMICS OF AEROSOL SOURCES IN A FINE PARTICULATE MATTER FRACTION AT A CENTRAL EUROPEAN BACKGROUND STATION Alexander Joy PANJIKKARAN
9:50 – 10:05	ASHES BECOME AEROSOLS: (CRYPTO)TEPHRA AS A TRACER OF VOLCANIC FALLOUT AND LONG-RANGE TRANSPORT Verena MEIER
10:05 – 10:20	INFLUENCE OF AEROSOL CHEMICAL COMPOSITION AND AIR MASS ORIGIN ON CLOUD ACTIVATION AT A BACKGROUND SITE Charlie ANDAN
10:20 – 11:00	COFFEE BREAK
11:00 – 12:00	PLENARY SPEAKER: AN EXPERIMENTAL APPROACH TO THE LIFE-CYCLE AND ATMOSPHERIC IMPACTS OF BLACK CARBON Martin GYSEL-BEER
12:00 – 13:40	OBĚD – LUNCH
PONDĚLÍ – MONDAY 10.11.2025 ODPOLEDNE – AFTERNOON	
Soutěž o nejlepší přednášku mladých vědců – Dekati Award	
Session chairwoman	Iva Hůnová
13:40 – 13:55	WATER TO RULE THEM ALL: A MEASUREMENT OF THE HYGROSCOPIC LIGHT SCATTERING ENHANCEMENT USING A NOVEL SINGLE-NEPHELOMETER SETUP SYSTEM AT URBAN BACKGROUND SITE Lenka SUCHÁNKOVÁ
13:55 – 14:10	FROM BOUNDARY LAYER TO FREE TROPOSPHERE: AEROSOL AND ICE NUCLEATION PARAMETERIZATION Joseph DURAT
14:10 – 14:25	METEOROLOGICAL EFFECTS ON VERTICAL VARIABILITY OF AEROSOL CHEMICAL COMPOSITION AT A RURAL BACKGROUND SITE Kajal JULAHA

14:25 – 14:40	MEASUREMENT OF NEW PARTICLE FORMATION USING NAIS AT TWO DIFFERENT HEIGHTS Anna ŠPALOVÁ
14:40 – 14:55	TOXICITY OF TRANSPORT EMISSIONS UNDER SUBFREEZING CONDITIONS Tereza ČERVENÁ
14:55 – 15:35	COFFEE BREAK
Session chairman	František Lízal
15:35 – 15:50	CHARACTERIZATION OF ROAD DUST AT URBAN INTERSECTION AND ITS DEPENDENCE ON TRAFFIC INTENSITY DURING THE SUMMER SEASON Klaudia MATUŠKOVÁ
15:50 – 16:05	SUSPENDED PARTICLES FROM THE PERSPECTIVE OF SEM/EDX Martina BRENČIČ
16:05 – 16:20	CHARACTERIZATION OF THE EFFICIENCY OF NAFION AIR DRYING UNDER VARIOUS OPERATING CONDITIONS Michal SANETRŇÍK
16:20 – 16:35	A STEP TOWARD PERSONALIZED AND DEVICE-SPECIFIC INHALATION THERAPY WITH NEBULISERS Jana KÁNSKÁ
16:35 – 17:35	Schůze výboru ČAS – CAS board meeting Jakub ONDRÁČEK
18:00 – 19:00	VEČEŘE – DINNER
19:00 – 21:00	OCHUTNÁVKA MANDLOVKY – “MANDLOVKA” TASTING

ÚTERÝ – TUESDAY 11.11.2025 DOPOLEDNE – MORNING	
9:00 – 10:00	PLENARY SPEAKER: ORGANIC POLLUTANTS IN THE GLOBAL ATMOSPHERE – NEW TRENDS Gerhard LAMMEL
Session chairwoman	Naděžda Zíková
10:00 – 10:15	IMPACTS OF ENVIRONMENTAL POLLUTANTS ON A 3D LUNG CELL GROWN IN THE AIR-LIQUID INTERFACE Pavel RÖSSNER
10:15 – 10:30	GENOME RESPONSE TO THE OCCUPATIONAL AND NON-OCCUPATIONAL ENVIRONMENTAL EXPOSURE TO NANOPARTICLES Andrea RÖSSNEROVÁ
10:30 – 11:10	COFFE BREAK
Session chairman	Vladimír Havránek
11:10 – 11:25	ELPI VS. MPSS/APSS: PERFORMANCE ASSESSMENT WITH WELL-CHARACTERISED AEROSOLS Jakub ONDRÁČEK
11:25 – 11:40	AEROSOL SIZE DISTRIBUTION RETRIEVED FROM POLAR-INTEGRATING NEPHELOMETER MEASUREMENTS Artur SZKOP
11:40 – 11:55	DRIVE-THROUGH DETECTION OF DEFUNCT DIESEL PARTICLE FILTERS: POTENTIAL OF MODERATE COST SENSORS AND „CITIZEN SCIENCE“ Michal VOJTÍŠEK
11:55 – 12:10	HIGH-RESOLUTION WIND-TUNNEL INVESTIGATION OF POLLUTANT DISPERSION AND FLOW FIELD IN LEGEROVA STREET, PRAGUE Štěpán NOSEK
12:10 – 13:50	OBĚD – LUNCH
ÚTERÝ – TUESDAY 11.11.2025 ODPOLEDNE – AFTERNOON	
Session chairman	Michal Vojtíšek
13:50 – 14:05	PŘÍSTROJ SYFT TRACER A TECHNOLOGIE SIFT-MS: NOVÉ MOŽNOSTI V ANALÝZE OVZDUŠÍ Růžena PENÍŽKOVÁ
14:05 – 14:20	HANDHELD ULTRAFINE PARTICLE SIZE DISTRIBUTION MEASUREMENT Pavel CHALOUPECKÝ
14:20 – 14:35	CHARACTERIZATION AND FIELD TESTING OF THE DEKATI OXIDATION FLOW REACTOR (DORF) Oskari VAINIO
14:35 – 14:50	SIZE-RESOLVED MONITORING OF MINERAL DUST EMISSIONS Tomáš PROKOP
14:50 – 15:30	COFFEE BREAK

Session chairman	Bohumil Kotlík
15:30 – 15:45	MODELING THE SOURCES AND UNCERTAINTIES OF SECONDARY AEROSOLS OVER CENTRAL EUROPE Lukáš BARTÍK
15:45 – 16:00	STATISTICKÉ MODELOVÁNÍ POČETNÍCH KONCENTRACÍ ČÁSTIC Marek BRABEC
16:00 – 16:10	Vyhodnocení soutěže mladých vědců – DEKATI Award announcement Jakub Ondráček; Biowell (Dekati)
16:10 – 17:00	Členská schůze ČAS – Meeting of the CAS members Jakub Ondráček
19:00	SPOLEČENSKÝ VEČER – CONFERENCE DINNER

STŘEDA – WEDNESDAY 12.11.2025 DOPOLEDNE – MORNING	
Session chairwoman	Ludmila Mašková
9:00 – 9:15	LONG-TERM CHANGES IN PRECIPITATION CHEMISTRY IN CENTRAL EUROPE Iva HŮNOVÁ
9:15 – 9:30	DETECTION OF BIOGENIC SOA USING TWO CONVENTIONAL OPTICAL INSTRUMENTS Radim SEIBERT
9:30 – 9:45	APPLICATION OF GAS CHROMATOGRAPHY ATMOSPHERIC PRESSURE CHEMICAL IONIZATION MASS SPECTROMETRY FOR ANALYSIS OF CONTAMINANTS IN ENVIRONMENTAL SAMPLES Petr KUKUČKA
9:45 – 10:00	SOURCE-SPECIFIC ABSORPTION ANSTROM EXPONENT AND AEROSOL SIZE DISTRIBUTIONS AT A RURAL BACKGROUND SITE Saliou MBENGUE
10:00 – 10:15	REGIONAL AND SEASONAL DRIVERS OF METALS AND PAHS CONCENTRATIONS IN ROAD AND THEIR HEALTH IMPLICATIONS IN THE CZECH REPUBLIC Bohumil KOTLÍK
10:15 – 10:55	COFFEE BREAK
Session chairman	Vladimír Ždímal
10:55 – 11:10	ONLINE VS. OFFLINE AEROSOLOVÁ HMOTNOSTNÍ SPEKTOMETRIE: URČENÍ STAVU AEROSOLŮ NA ZÁKLADĚ LETNÍCH DAT Z POZAŘOVÉ STANICE KOŠETICE Petr VODIČKA
11:10 – 11:25	WHAT ARE THE MAIN CHALLENGES IN BUILDING A NEW GREENHOUSE GAS MEASUREMENT NETWORK WITHIN THE ADAGRIF PROJECT? Roman PROKEŠ
11:25 – 11:40	HEAT WAVE EFFECTS ON ISOPRENE CONCENTRATIONS AT KOŠETICE AND LIBUŠ OBSERVATORIES Jan PACNER
11:40 – 11:55	NABÍJENÍ UTLRAJEMNÝCH AEROSOLŮ PŘI ELEKTROSTATICKÉM ODLUČOVÁNÍ Alexandr MOLČANOV
11:55 – 12:05	Ukončení konference – Closing of the conference Jakub Ondráček
12:05 – 13:35	OBĚD – LUNCH

POSTERY - POSTERS

1	BIOACCESSIBILITY OF ELEMENTS AND OXIDATIVE POTENTIAL OF PM1 USING SIMULATED FLUID LUNGS Hana HLAVÁČKOVÁ
2	SUPERLOKALITY DLE SMĚRNICE 2024/2881 Adéla HOLUBOVÁ
3	REAL EMISSIONS FROM THE COMBUSTION OF SOLID FUELS DURING DOMESTIC HEATING Kamil KRŮMAL
4	CLEANING OF SUBMIKRON PARTICLES FROM PAPER USING A COMBINATION OF CO₂ BLASTING AND PLASMA Ludmila MAŠKOVÁ
5	CHOLESTEROL AND CHOLESTERYL ESTERS CHANGES IN THP-1 CELLS AND MICE LUNG TISSUE AFTER EXPOSURE TO PbO NANOPARTICLES Pavel MIKUŠKA
6	COMPARISON OF AEROSOL CONCENTRATIONS AT TWO NATIONAL MONITORING STATIONS Tomasz OLSZOWSKI
7	QUALITY ASSURANCE OF MEASUREMENT OF PM10 AND PM2.5 SUSPENDED PARTICLE FRACTIONS IN OUTDOOR AIR USING PROFICIENCY TESTING Lenka PEKAŘOVÁ
8	WINTER AIR POLLUTION AT A RURAL BACKGROUND SITE SITUATED IN THE LIGNITE BASIN AREA IN THE VICINITY OF TUŠIMICE POWERPLANT Petra POKORNÁ
9	RECETOX, ACTRIS-CZ RESEARCH INFRASTRUCTURES Petra PŘIBYLOVÁ
10	RECETOX RESEARCH INFRASTRUCTURE SERVICES OFFER – CORE FACILITY OF THE CENTRAL LABORATORIES Petra RŮŽIČKOVÁ
11	PROGRESS AT THE ACTRIS STATION MILEŠOVKA Pavel SEDLÁK
12	ROZDÍLY VE SLOŽENÍ ATMOSFÉRICKÉHO AEROSOLU NR-PM1 V RŮZNÝCH VÝŠKÁCH Jaroslav SCHWARZ
13	REAL-WORLD EMISSIONS OF GASEOUS AEROSOL PRECURSORS FROM MOPEDS AND MOTORCYCLES USING A PORTABLE, RIDER-WORN FTIR ANALYSER Michal VOJTÍŠEK
14	CLOUD DROPLET SPECTRA MEASUREMENTS: COMPARISON IN LOW STRATIFORM CLOUDS Naděžda ZÍKOVÁ
15	PROJECT FOCI: NON-CO₂ FORCERS AND THEIR CLIMATE, WEATHER, AIR QUALITY AND HEALTH IMPACTS: WHERE WE ARE AND WHERE WE ARE GOING Tomáš HALENKA