CEE HYDROMET CONFERENCE 2026

Day I · Wednesday, 18 November

Hydrology, Meteorology, Forecasting and Measurement Technologies | 10:00–18:20

Time	Presentation
10:00–10:10	**Conference Opening and Welcome Address** **Anetta Drzeniecka-Osiadacz**, University of Wrocław **Borysław Zatoka**, Fundacja Spacerowa 7
10:10-10:15	**Welcome Remarks** Dean dr hab. **Maciej Kryza**, prof. UWr
10:15–11:25	**PL1 ▪ Plenary Session ▪ Early Warning and Risk Management** Session Chair: **Marcin Wdowikowski**, Wrocław University of Science and Technology; **Tomasz Lewicki**, University of Warsaw /Water Survey Tech sp. z o.o.
10:15–10:30	**Crisis Management in Response to Extreme Meteorological Events and Environmental Hazards** Authors: st. bryg. Tomasz Kołodziejczyk Presented by: **Tomasz Kołodziejczyk**, Deputy Director, Government Centre for Security
10:30–10:45	**HydroProg and AltHydro – Hydrological Forecasting and Early Warning** Authors: T. Niedzielski, B. Miziński, M. Halicki Presented by: **Tomasz Niedzielski**, University of Wrocław
10:45–11:00	**The Curse of Abundance: Hydrometeorological Data Should Lead to Decisions** Authors: K. Chudy Presented by: **Krzysztof Chudy**, Wrocław University of Science and Technology, Faculty of Geoengineering, Mining and Geology
11:00–11:15	**One River, Three Approaches: Comparing Flood Information in the Lusatian Neisse Basin** Authors: A. Uciechowska-Grakowicz, J. Kajewska-Szkudlarek, R. Stodolak, J. Kamińska, M. Oktawiec Presented by: **Anna Uciechowska-Grakowicz**, Wrocław University of Environmental and Life Sciences
11:15–11:25	**Session Discussion and Q&A**

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Time	Presentation
11:25–11:45	**Coffee Break**
11:45–12:55	**H1 ▪ Hydrology ▪ Water Retention and Advanced Measurement Techniques** Session Chairs: **Krzysztof Chudy**, Wrocław University of Science and Technology; **Robert Konieczny**, Far Data Sp. z o.o.
11:45–12:00	**Micro-retention in a River Catchment** Authors: A. Mika, M. Bełcik, M. Wdowikowski, M. Kutyłowska Presented by: **Marcin Wdowikowski**, Wrocław University of Science and Technology, Faculty of Environmental Engineering
12:00–12:15	**Hydrology Under Extreme Conditions – Modern Methods for Measuring Water Levels, Flow and Water Quality** Authors: M. Wydrych Presented by: **Mikołaj Wydrych**, Water Survey Tech Sp. z o.o.
12:15–12:30	**Modern Methods of Hydrological Measurement** Authors: J. Woś Presented by: **Justyna Woś**, OMC Envag Sp. z o.o.
12:30–12:45	**Advanced Measurement Techniques in Hydrography – The CHCNAV Apache 4 Pro System and Advanced Bathymetric Technologies** Authors: T. Szkałuba, K. Pietralik Presented by: **Tomasz Szkałuba**, NaviGate Sp. z o.o.
12:45–12:55	**Session Discussion and Q&A**
12:55–13:55	**Lunch and** **Outdoor Measurement Equipment Demonstration for Interested Participants** **Jerzy Jutarski**, Institute of Meteorology and Water Management - National Research Institute (IMGW-PIB)

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Time	Presentation
13:55–15:05	**H2 ▪ Water Management ▪ Climate, Environment and Climate Change Adaptation** Session Chairs: **Michał Mierzwiak**, Military University of Technology; **Krzysztof Migała**, University of Wrocław
13:55–14:10	**Contemporary Challenges in Urban Water Management** Authors: S. Buczyński, R. Tarka, T. Olichwer, M. Wcisło Presented by: **Sebastian Buczyński**, University of Wrocław
14:10–14:25	**Antecedent Drought and Delayed Hydroclimatic Associations with Norway Spruce Forest Disturbances in the Góry Sowie Mountains, Central Europe** Authors: B. Okoński, W. Mączka Presented by: **Bernard Okoński**, Poznań University of Life Sciences
14:25–14:40	**Solar Energy Atlas for Poland (AES-PL) – from Comprehensive Assessments to Decision-Making Implications** Authors: J. Wieczorek, B. Bochenek, T. Liberski, J. Jurasz Presented by: **Joanna Wieczorek**, Institute of Meteorology and Water Management – National Research Institute (IMGW-PIB)
14:40–14:55	**Urban Green Infrastructure and Microclimate Regulation in Wrocław: Mobile Measurements and Satellite Observations** Authors: D. Cugier Presented by: **Dominik Cugier**, University of Wrocław
14:55–15:05	**Session Discussion and Q&A**
15:05–15:25	**Coffee Break**
15:25–17:05	**M1 ▪ Meteorology and Hydrology ▪ Modelling and Measurement Technologies** Session Chairs: **Artur Miller**, Comet Solutions Sp. z o.o; **Przemysław Budnicki**, Waterly Sp. z o.o.
15:25–15:40	**The Weather On Demand Framework** Authors: Ó. Rögnvaldsson, K. Stanislawska, M. Okrzesa, H. Chang Presented by: **Ólafur Rögnvaldsson**, Belgingur Ltd., Reykjavík, Iceland

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15:40–15:55	**Comparison of ERA5 PW (Precipitable Water) Values with Observational Data: A Local GNSS Network and Radiosondes** Authors: M. Mierzwiak, A. Araszkiewicz Presented by: **Michał Mierzwiak**, Military University of Technology
15:55–16:10	**Quantitative Precipitation Estimation Using Dual-Polarization Radars** Authors: K. Dzwonkowski Presented by: **Karol Dzwonkowski**, Military University of Technology
16:10–16:25	**Scanning Wind LiDAR: Innovative Applications in Meteorology and Aviation** Authors: M. Tsitsigiannis Presented by: **Manolis Tsitsigiannis**, Raymetrics S.A.; **Efstathiou Konstantina (Dina)**; Raymetrics S.A.
16:25–16:40	**Compact Lidar-Radiometr System for Aquatic Environmental Monitoring** Authors: V. Pelevin, E. Koltsova, P. Skripka, M. Jabłońska, A. Rubin, A. Woźnica, R. Gwiazda, M. Lupa, P. Pichór, L. Janicka, T. Kossowski-Kolodziej, I. S. Stachlewska Presented by: **Iwona S. Stachlewska**, University of Warsaw, Faculty of Physics
16:40–16:55	**Influence of Diffuser Geometry on the Flow Parameters and Energy Performance of a Hydrokinetic Turbine** Authors: P. Szulc, A. Machalski, A. Góralczyk, W. Lorenz Presented by: **Przemysław Szulc**, Wrocław University of Science and Technology
16:55–17:05	**Session Discussion and Q&A**
17:10–18:10	**POSTER SESSION ▪ Poster Presentations and Discussions (P01–P26)**
18:10–18:20	**Day 1 Summary**

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Day II · Thursday, 19 November

ACTRIS-PL, Aerosols, Air Quality, Technologies and Climate Policy | 09:00–15:55

Time	Presentation
09:00–09:10	**Opening of Day 2**
09:10–10:50	**A1 ▪ ACTRIS-PL ▪ Atmospheric Remote Sensing ▪ Atmospheric Aerosols** Session Chairs: **Izabela Sówka**, Wrocław University of Science and Technology; **Katarzyna Jaworek**, Institute of Environmental Engineering, Polish Academy of Sciences Anna Szczotka-Sobiecka
09:10–09:25	**Applications of ACTRIS Project Results in Research and Practice** Authors: A. Pietruczuk Presented by: **Aleksander Pietruczuk**, Institute of Geophysics, Polish Academy of Sciences (IGF PAN)
09:25–09:40	**Fine-resolution Photon Counting: Added Value in Lidar Applications** Authors: I. S. Stachlewska, Aboltins, V. A. Kurtenoks, M. Winkowski, P. Ribes-Pleguezuelo, A. Adamovitch Presented by: **Iwona S. Stachlewska**, University of Warsaw, Faculty of Physics
09:40–09:55	**Use of Depolarisation Ceilometer for Atmospheric Profiling** Authors: R. McKay Presented by: **Richard McKay**, Campbell Scientific
09:55–10:10	**Atmospheric Brightening over Poland: The Role of Aerosols, Clouds, and Water Vapour** Authors: K. M. Markowicz, S. Kłapiński, O. Zawadzka-Mańko Presented by: **Krzysztof M. Markowicz**, University of Warsaw
10:10-10:25	**Variability of Aerosols in the Atmospheric Profile: A Case Study of Selected Measurement Campaigns in the Upper Silesian-Zagłębie Region** Authors: P. K. Gałka Presented by: **Pamela K. Gałka**, University of Silesia in Katowice, Faculty of Natural Sciences, Institute of Earth Sciences

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Time	Presentation
10:25-10:40	**Low-Cost Measurement Networks: A Potential Source of Urban Bioclimatic Data? Lessons Learned from the LIFE-MAPPINGAIR/PL Project** Authors: T. Sawiński and LIFE-MAPPINGAIR/PL team Presented by: Tymoteusz Sawiński, University of Wrocław
10:40-10:50	**Session Discussion and Q&A**
10:50-11:10	**Coffee Break**
11:10-12:20	**A2 ▪ Atmospheric Aerosols** Session Chairs: **Andrzej Szczurek**, Wrocław University of Science and Technology; **Iwona S. Stachlewska**, University of Warsaw
11:10-11:25	**ACTRIS In-Situ Aerosol Observations as a Tool for Receptor Modelling: A Case Study from Racibórz, Poland** Authors: A. Pietruczuk, O. Zawadzka-Mańko, A. Szkop Presented by: **Aleksander Pietruczuk**, Institute of Geophysics, Polish Academy of Sciences (IGF PAN)
11:25-11:40	**Gaseous Emissions from Combustion of Coal-Mining Waste** Authors: M. Jabłońska, J. Janeczek, K. Paszcza Presented by: **Mariola Jabłońska**, University of Silesia in Katowice
11:40-11:55	**Festive Flares: How do Celebratory Fires Shape the Aerosol Optical Properties?** Authors: A. Minderytė, L. Janicka, A. Drzeniecka-Osiadacz, A. Szkop, J. Vasilescu, D. Szczepanik, K. Maciejewska, T. Sawiński, M. Reizer, D. Nicolae, S. Byčenkienė, I.S. Stachlewska Presented by: **Agne Minderyte**, University of Warsaw, Faculty of Physics
11:55-12:10	**Chemical Regimes of Winter Urban Aerosol in Wrocław** Authors: A. Drzeniecka-Osiadacz, Ch. Di Marco, I. S. Stachlewska, M. Górka, T. Sawiński, A. Tomczak, P. Poczta, W. Bartz, M. Werner, M. Kryza, A. Hafiz, M. Karasewicz, K. Jaworek, M. Syrzycki, J. Bratkowski, S. Leeson, N. Mullinger Presented by: **Anetta Drzeniecka-Osiadacz**, University of Wrocław
12:10-12:20	**Session Discussion and Q&A**
12:20-13:20	**Lunch**

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Time	Presentation
13:20-14:45	**A3 ▪ Air Quality - Monitoring, Technologies and Modelling** Session Chairs: **Maciej Górka**, University of Wrocław; **Mariola Jabłońska**, University of Silesia in Katowice
13:20-13:35	**ULKA Mobile Laboratory – Research Potential for Air Pollution Monitoring** Authors: M. Szczyrba, T. Krzykawski, M. Jabłońska Presented by: **Mirosław Szczyrba / Tomasz Krzykawski**, University of Silesia in Katowice, Faculty of Natural Sciences, Institute of Earth Sciences, University Laboratories for Atmospheric Monitoring (ULKA)
13:35-13:50	**Vertical Measurements of Tropospheric Air Using Sensor and Drone Technologies** Authors: A. Szczurek, M. Maciejewska, P. Batog, R. Kowalczyk Presented by: **Andrzej Szczurek**, Wrocław University of Science and Technology
13:50-14:05	**Development of Methods for Allergenic Pollen Classification** Authors: A. Godzisz, S. Tomczyk, M. Werner Presented by: **Agata Godzisz**, University of Wrocław
14:05-14:20	**Microplastics: What I Hear, What I See, What I Know** Authors: K. Janoszka, K. Jaworek Presented by: **Katarzyna Janoszka**, Institute of Environmental Engineering, Polish Academy of Sciences (IPIŚ PAN)
14:20-14:35	**Short-Term Forecasting of Odour Risk in the Vicinity of a Municipal Waste Treatment Facility Using the WRF–CALMET–CALPUFF Modelling System** Authors: M. Paciorek, I. Sówka Presented by: **Małgorzata Paciorek**, Wrocław University of Science and Technology, Faculty of Environmental Engineering, Department of Environmental Biology and Atmospheric Protection
14:35-14:45	**Session Discussion and Q&A**
14:45-15:05	**Coffee Break**

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15:05-15:45	**P1 ▪ Climate Policy** Session Chairs: **Borysław Zatoka**, Fundacja Spacerowa 7; TBC
15:05-15:20	**ESG Reporting in the Largest Polish Listed Companies under ESRS: Sectoral Disclosure Gaps and Implications for the Use of Climate and Water Data in Corporate Decision-Making** Authors: P. Ł. Całka Presented by: **Paweł Ł. Całka**, Wrocław University of Environmental and Life Sciences, Doctoral School, Department of Systems Research
15:20-15:35	**EU ETS – A Good Example for the World or Self-Destruction?** Authors: A. Mikłaszewski Presented by: **Aureliusz Mikłaszewski**, Lower Silesian Ecological Club
15:35-15:45	**Session Discussion and Q&A**
15:45-15:55	**Conference Closing Remarks and Summary** **Anetta Drzeniecka-Osiadacz**, University of Wrocław **Borysław Zatoka**, Fundacja Spacerowa 7

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Poster Session · 18 November, 17:10-18:10

No.	Titles / Authors
P01	**Mobile Upper-Air Soundings for Diagnosing Supercell Thunderstorm Environments: A Case Study of 4 August 2026** Authors: J. Jutarski, P. Szuster, K. Fober Presented by: Jerzy Jutarski
P02	**Application of Numerical Weather Prediction Models for the Sudetes Region** Authors: N. Pilguj, A. Jaczewski, J. Wieczorek, T. Strzyżewski, B. Sobczyk, M. Figurski Presented by: Natalia Pilguj
P03	**Environmental radiological baseline monitoring of Baltic coastal sediments using gamma spectrometry and multivariate analysis** Authors: A. Łukaszek-Chmielewska, M. Szyłak-Szydłowski Presented by: Mirosław Szyłak-Szydłowski
P04	**Weather inputs for low water forecasts at Danube gauges** Authors: J. Shin, L. Kurz, N. Bader Presented by: Jungmin Shin
P05	**Seasonal Dynamics and Environmental Controls of CO_2 Exchange in an Apple Orchard in Central Poland** Authors: I. Pawlak, M. Kleniewska, P. Poczta, B. H. Chojnicki, A. Pietruczuk Presented by: Izabela Pawlak
P06	**Application of selected remote sensing and ground-based measurements for assessing the physical conditions of the atmospheric boundary layer in the monitoring of specific particulate matter fractions for the purposes of ACTRIS-PL** Authors: E. Krajny, L. Ośródka Presented by: Leszek Ośródka
P07	**From the free troposphere to ground level: Saharan dust over Wrocław, March 2026** Authors: W. Kopeć Presented by: Wiktor Kopeć
P08	**Integrated exposure and health risk assessment in a waste management facility** Authors: U. Miller, M. Wróbel, J. Jońca, A. Jurga, D. Jaworska, E. Rus, I. Sówka Presented by: Urszula Miller

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No.	Titles / Authors
P09	**Atmospheric monitoring of xenon-133 in Warsaw: activity concentrations in urban air** Authors: M. Szyłak-Szydłowski, A. Łukaszek-Chmielewska, B. Piotrowska Presented by: Mirosław Szyłak-Szydłowski
P10	**Assessment of coal mine methane emissions using mobile observations and atmospheric dispersion modelling** Authors: Y. Bezyk, A. Góra, M. Gałkowski, M. Zimnoch, D. Szurgacz, M. Górka, P. Jagoda, J. Bartyzel, J. Nęcki Presented by: Yaroslav Bezyk
P11	**Pilot Field Measurements of Atmospheric CO_2 Using a Sensor System in an Urban Environment** Authors: D. Jaworska, Y. Bezyk, M. Zimnoch, I. Sówka Presented by: Dagmara Jaworska
P12	**Automatic detection of allergenic bioaerosols** Authors: S. Tomczyk, K. Wiśniewska, M. Werner, M. Malkiewicz, K. Bubel Presented by: Szymon Tomczyk
P13	**Beyond Crystalline Iron Oxides: Novel Catalyst Materials for Fenton and Fenton-Like Advanced Oxidation Processes** Authors: S. Łoński Presented by: Sylwester Łoński
P14	**AURORA 4000 as a ground reference for UAV-borne COBALD backscatter profiling** Authors: I. Bruchkouski, A. Szkop, A. Pietruczuk, J. Szymkowska Presented by: Ilya Bruchkouski
P15	**Seasonal variability of atmospheric CO_2 and CH_4 in Ostrów Wielkopolski, Poland: insights from stable carbon isotopes** Authors: M. Górka, B. Motyl, M. Przybył, A. Stekiel, K. Pawlaczyk, A. Palczewska, M. Pietrzak, O. Orszulak, Z. Kaźmierczak, Y. Bezyk Presented by: Maciej Górka
P16	**Multiparameter Sensor Systems for Odour-Related Air Quality Assessment – Integration of Air Pollutant Monitoring and Odour Emission Markers** Authors: I. Sówka, M. Paciorek, T. Kosiak Presented by: Małgorzata Paciorek
P17	**Air Quality Impact Assessment of Projects: The Reference Approach, Its Limitations and Future Directions** Authors: M. Paciorek, I. Sówka, M. Fijołek, M. Paciorek Presented by: Małgorzata Paciorek

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No.	Titles / Authors
P18	**Aerosol remote sensing at ACTRIS-PL stations: lidar-derived changes of aerosol composition within the Atmospheric Boundary Layer in Warsaw** Authors: D. M. Szczepanik, M. Szczyrba, W. Kumala, R. Fortuna, A. Hafiz, M. Karasewicz, A. Jankowska, M. Konieczny, D. Wang, M. Winkowski, I. S. Stachlewska Presented by: I. S. Stachlewska
P19	**Broadband fluorescence detectability (SimFLO): application to different lidars** Authors: H. Hafiz, J. Boreczek, A. Tomczak, A. Drzeniecka-Osiadacz, L. Janicka, M. Werner, I. S. Stachlewska Presented by: H. Hafiz
P20	**Cloud remote sensing at ACTRIS-PL stations: contrasting urban and rural environments** Authors: P. Poczta, Ł. Janicka, K. Gabzdyl, M. Karasewicz, W. Kumala, M. Wacławczyk, B. H. Chojnicki, I. S. Stachlewska Presented by: Patryk Poczta
P21	**The role of the Eurasian beaver in water retention: hydrological benefits, damage and mitigation** Authors: A. Krysztofiak-Kaniewska Presented by: Anna Krysztofiak-Kaniewska
P22	**Comparison of Polycyclic Aromatic Hydrocarbon (PAH) Concentrations at Three ACTRIS Monitoring Stations in Poland in 2025** Authors: K. Jaworek, N. Lemiańska, K. Janoszka Presented by: Katarzyna Jaworek
P23	**Variability of the number concentration and size distribution of atmospheric aerosol during winter episodes of air pollution in Wrocław** Authors: A. Drzeniecka-Osiadacz Presented by: Anetta Drzeniecka-Osiadacz
P24	**Analysis of Airborne Particulate Matter Collected on Fiberglass Filters using X-Ray methods: SEM, XRD, XRF** Authors: T. Kalinichenko, T. Krzykawski, M. Jabłońska Presented by: Tetiana Kalinichenko
P25	**Urban heat adaptation priorities: A comparative review of risk indicators and planning practice** Authors: M. Żabińska, M. Wdowikowski Presented by: Magdalena Żabińska
P26	**Comparison of City Rankings in the Water City Index, 2019–2026** Authors: H. Jamry, G. Galiniak, M. Dębczyński, M. Wdowikowski Presented by: Hubert Jamry

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