

# Mining Aerology Department

## Safety and microclimate in the mining industry

- + **Analysis and assessment of:**
  - workings ventilation
  - climatic conditions in underground environments
  - aerological hazards, including: heat-related (climatic) hazards, gas hazards, gas and rock outbursts, and dust hazards
  - prevention of aerological hazards
- + **Conceptual designs and technical solutions for localised air-conditioning systems**
- + **Performance evaluation and operational assessment of ventilation fans, with regard to both safety and cost efficiency.**





## Our Services

We offer expert services across the full scope of mine aerology in underground mining operations, including:

- + Calculation and analysis of ventilation networks and subnetworks using specialised numerical software,
- + Assessment of climatic conditions at underground workplaces,
- + Assessment of hazards in underground workings, including: heat-related (climatic) hazards, gas hazards, gas and rock outbursts, and dust hazards, together with a review of the preventive measures applied,
- + Development of solutions for the prevention of aerological hazards,
- + Forecasting of aerological hazards in underground mines,
- + Evaluation of the effectiveness of ventilation and air-conditioning systems in underground workings,
- + Performance analysis of main mine ventilation fans,
- + Assessment of fan operation with respect to safety and ventilation cost efficiency.

### Design and selection of workplace air-conditioning equipment for underground workings

All expert opinions and technical studies are reviewed by a certified expert authorised by the State Mining Authority (Wyższy Urząd Górniczy), within the relevant professional scope.

#### Contact us

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