

## Calculation of air pollution in surroundings of parking places and collective garages

F. Hesek

Geophysical Institute of the Slovak Academy of Sciences<sup>1</sup>

**A b s t r a c t:** A parking place and a collective garage are both included among the small sources of pollutants. A collective garage with the air-conditioning is really a small source. Pollutants are emitted over the roof into the free atmosphere with good dispersion conditions. The impact of such a pollutant source on the quality of the surface layer of the atmosphere is small. The parking place is a ground source of pollutants and its influence on the air pollution in the vicinity of a big parking place can be high. It is therefore important to determine the pollutant emission of the parking place. The emission of pollutants is calculated as an average of the emission during the idle and slow speed regime of a car engine running.

**Key words:** Air pollution, pollutant emission, car traffic, parking place, collective garage

---

<sup>1</sup> Dúbravská cesta 9, 842 28 Bratislava, Slovak Republic, e-mail: geofhese@savba.sk