

**ESTIMATION OF THE NATIONAL ROAD TRANSPORT EMISSIONS  
IN LATVIA FROM 1990 TO 2002 USING THE COPERT III MODEL**

**E. Smalins<sup>1</sup>, M. Winther<sup>2</sup>**

*<sup>1</sup>Institute of Atomic Physics and Spectroscopy, University of Latvia, Riga, Latvia*

*<sup>2</sup>Department of Policy Analysis, National Environmental Research Institute, Roskilde, Denmark*

This poster presents the results of the first calculations of pollutant emissions from road traffic in Latvia during the period of 1990–2002 by using the COPERT III model. The work has covered two main phases: input data compilation and program execution. The compilation of input data was targeted to meet the requirements of COPERT III. In line with this, adequate algorithms have been developed to establish required data sets based on available statistical data, current literature and expert opinions. The data sets produced contain detailed figures for vehicle fleet, mileage and other aspects essentially needed as input data to COPERT III. Program execution has produced a time series for each emission component during the study period. The emission effects of significant economic changes in early 90-ties, newly introduced emission regulations and increasing mobility during the time period can be observed. Vehicle renewal, more strict regulation on fuel composition and vehicle emissions has significantly reduced the emissions of sulphur and lead. Mainly due to the increased volumes of traffic, a sustained growth in greenhouse gas emissions has taken place.