On Friday the 20th of April, Martin Landré, from NHTV, the Netherlands, will present his paper *Geoprocessing journey-to-work data for the delimitation of functional regions in Dalarna* at Högskolan Dalarna in Borlänge. The seminar is held in English and is open to all.

Delimitation of functional regions has always been based on statistical units, municipalities in Sweden. Using municipalities, however, has certain disadvantages, such as the presence of the multiple area unit problem (MAUP). This is caused by large differences in land area, which creates large distortions in self-containment figures, the main criterion used in region building. An alternative is to depart from much smaller standard size base units such as hexagons. In this way, the above problem is avoided and much greater detail in regional patterns obtained. Regions have been built by means of intrazonal maximization (intramax). For the processing of spatial data, a number of geoprocessing tools have been developed with ArcGIS ModelBuilder, which has speeded up processing time considerably and allows testing of results by comparing numerous what-if situations. Further testing has taken place by comparing the results of the intramax procedure with those of Statistics Sweden, accessibility figures as well as commuting fields, based on orientation at major employment centres and size of commuter flows to those centres. The research forms part of a long term project on functional region building in Sweden.

**Scientific seminar:** Tourism studies

**Time:** Friday, April 20th at. 13.00-14.00

**Location:** BC-room, Högskolan Dalarna, Borlänge.