

**“Great Burgundy wines : the terroir incidence”**  
*A multivariate analysis of wines from ‘La Côte’ in Burgundy*

**Frank WITTENDAL**  
[w04@wittendal.com](mailto:w04@wittendal.com)

**Abstract**

The presentation will examine wines from *Côte de Nuits* and *Côte de Beaune* in Burgundy, together with sets of variables characterising the *terroirs* they originate from.

Variables concern the soil and its structure (geology and pedology), watering and drainage, climatology, etc.

The analysis will apply multivariate methods, including PLS regression, in an attempt to establish what are the main factors contributing to wine quality, particularly concerning vintage wines.

**Benefits**

Burgundy is a region where the concept of *terroir* has been applied in wine growing for a very long period of time (see for example Charles Pomerol or Roupnel on the origin of wine cultivation by the monks of Cluny and Citeaux). And in Burgundy, the declension of “terroir” is extremely detailed, up to the entities “*Climats*” and, further down, “*Ouvrée*”.

**Methodology**

The French geologic and climatologic meshing covers the entire territory in square meshes of 50 m. This information will be confronted with data concerning *Côte de Nuits* and *Côte de Beaune* wines, including the most famous “*vins de garde*”.