



## **Landscape, Geology and Wines in the Jurançon vineyard**

Bertrand Fasentieux (1), Marion Burgio (2), and Jean Delfaud (3)

(1) Géosciences. Université de Pau. 64000 Pau, France (bertrand.fasentieux@univ-pau.fr), (2) Mairie de Jurançon. 64110 Jurançon, France (marion.burgio@gmail.com), (3) Expert INAO. Centre de Pau. Maison de l'Agriculture. 64000 Pau, France (jean.delfaud@laposte.net)

Located on the Pyrenean Northern Piedmont, in Bearn, the PDO vineyards of Jurançon are undergoing great development, which requires a study of soils.

The landscape constitutes the main approach exploiting physical parameters - climatological, morphological and geological.

Man has realized the cadastral map for agricultural land in which vineyards develop. The geological substratum falls into three units: the Cretaceous flysch to the South, the Cenozoic calcareous pudding stone of Jurançon to the North-East and the oligo-Miocene molasse of Monein to the North-West. The soils resulting from these units are varied, with different pHs, permeabilities and clay minerals. Each of these three 'terroirs' produces dry or sweet wines with different characteristics well highlighted by winemakers.

Thus, geology, associated with climatology, determines distinctive types. Their expression, the landscape, becomes a communication tool, with a view to develop wine tourism.