Information Technology and Seismic Data Processing

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I will first introduce the Bordeaux Campus and the Signal and Image

Processing Group and then will raise the following items:

1- The pioneering work of Norbert Wiener and the so called predictive

deconvolution and its relationship to Wiener filter.

2- Origin of the Wavelet in the early eighties in the Total\*/group,

France: an historical point of view.

3- Some bottles necks problems within the framework of 2 and 3-D

contexts in our Group. The accent will be on the two following ones: the extension of the Wold decomposition to the 3- case in one hand a necessary and sufficient condition of a new inspired Schur Cohn

Stability test. Ref 1,2 and 3,4,5,

4- Some new insight within seismic volumes analysis. Ref 2. More references will be provided later.

5- The relationship with an industrial partner within the joint Total\*/CNRS laboratory (\* French Oil Company)