

## VIC/TAS BRANCH

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**“FAULT ANALYSIS FROM 3D SEISMIC DATA, FROM QUALITY CONTROL OF SEISMIC INTERPRETATION THROUGH TO RESERVOIR MODELLING”**

**by John Walsh, Esso/PESA Distinguished Lecturer.**

This lecture describes the methodology and application of a number of new structural-geological techniques for analysing faults and fault systems from seismic data. These are: firstly, fault-displacement analysis, which is used to establish the 3D geometry of fault systems; secondly, analysis of horizon separations on correlated faults to evaluate reservoir connectivity; and thirdly, prediction of the fault size populations below the limit of seismic resolution for reservoir modelling. The integration of these techniques enables a detailed analysis and description of faults and fault systems for the purposes of both exploration and development.