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### Seismic Velocities And Depth Conversion

*By Dr. Mac Al Chalabi - ACT (7th June), VIC/TAS (11th June), WA (24th June), QLD (1st June), SA (22nd June) and NSW (2nd June) Branches  
- Short Course and Luncheon Talk*

#### Course Details:

The course provides a thorough exposition of the various types of velocities used in seismic work, their derivation, interrelationships, limitations, accuracy and their correct application. Mathematical details are kept to a minimum. Emphasis is placed on the meaning and physical significance of the presented material and on practical approaches and implementations. Particular attention is devoted to methods of depth conversion, their relative merit and appropriate application. The bases of velocity modelling for depth conversion and pre-velocity modelling for time and depth pre- and post-stack imaging processes are comprehensively discussed. Free interactive discussions are an important basis of the course.

#### Biography

Graduated in geology and geophysics with B.Sc. and M.Sc., Ph.D. degrees from the Universities of Birmingham and Durham, and Diplome d'Ingenieur from the French Petroleum Institute. Member of the Institute of Petroleum (London), EAEG (European Association of Exploration Geophysicists), SEG (Society of Exploration Geophysicists),

RIIA (Royal Institute of International Affairs), and Fellow of the Geological Society. Worked approximately 20 years with BP in a wide range of mainly geophysical capacities in petroleum exploration and development, in UK, The Netherlands, Tunisia, Singapore and Venezuela. Since 1990, after leaving BP, has been an independent consultant working mainly in the capacity of a specialist in seismic velocities and depth conversion methods, as well as active involvement in international upstream business opportunities for oil companies, and in technology transfer. In view of the heavy demand for the course on Seismic Velocities and Depth Conversion in recent years, this course currently represents the second main activity after consultancy work. Has published a number of works in seismic, gravity, and magnetic, electrical exploration methods and in structural and global tectonics. Main technical speciality is seismic velocities and depth conversion, with a number of significant contributions in these fields. Some of these works have been reproduced in various collective publications. They are regarded as authoritative works and are frequently presented in text books and quoted in the geophysical literature.