

## **Multi Focusing Stack Technique for Subsurface Imaging**

**Sunjay Sunjay**

*Ph. D. Research Scholar, Exploration Geophysics, BHU, Varanasi-221005, India*

[sunjay\\_sunjay@yahoo.com](mailto:sunjay_sunjay@yahoo.com)

Whole soul goal of exploration seismology –precise subsurface imaging , can be done in different ways and in different domains: time or depth. Although depth migration has become almost mandatory in areas of complex geology— because it accounts for travelttime nonhyperbolic moveout, it has, in fact, quite a limited purpose—to convert seismic data from one form to another for a given velocity model. Time imaging provides sufficient information for a subsurface of moderate complexity. Moreover, even for complex areas that require depth migration for correct subsurface imaging, time imaging usually constitutes a key first step that facilitates the estimation of a velocity model for depth imaging. For these reasons, improving the quality of time imaging is a focus of intensive research. A recent advance is multifocusing (MF), a method with the potential to greatly improve the quality of time imaging.