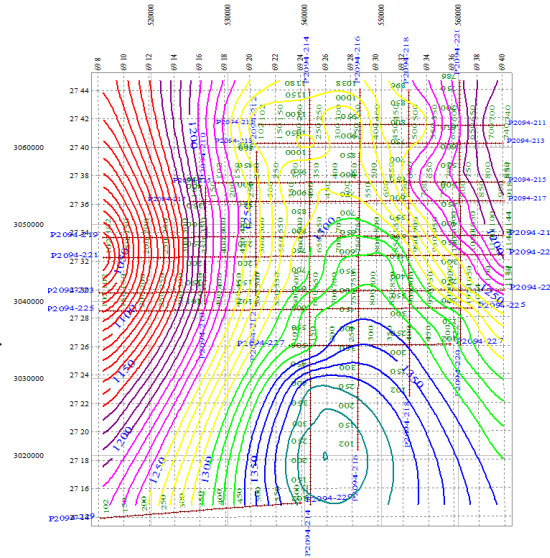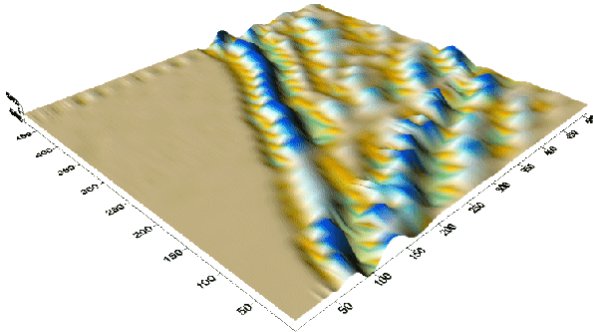# GP-405: Seismic Refraction, Statics & Tomostatics

Who Should Attend

This course is intended for QC and Operations Geophysicists as well as Data Acquisition Engineers involved in acquisition, processing and quality control of LVL surveys for field statics computations.

Overview

The course covers all aspects of seismic refraction methods; surface shooting, uphole logging, first break picking, tx-graphs and refractor modeling, linear, curvilinear and grid based statics computations. Near surface mapping of topography and weathered layers in the form of contours or 3D surfaces. It will also cover the new emerging techniques such as travel time tomography. The course will be conducted on the latest 64 bit version of SeiRA software.

COURSE CONTENTS

- Project Management & Field Data Inputs
- Automatic & Interactive First Breaks Picking & Quality Control
- Refractor Modeling
- Statics Computation
- Uphole & Downhole Logging
- New: Export Statics & Elevation Data to Surfer for Contouring
- New: Integrated Near Surface Analysis using Statics, Topography & Imagery
- New: Travel-time Tomostatics