

# Geophysical Subsurface Imaging

## Seismic Data Interpretation and Processing

- Subsurface structural mapping and reservoir characterization
- 3D seismic digital data processing and visualization

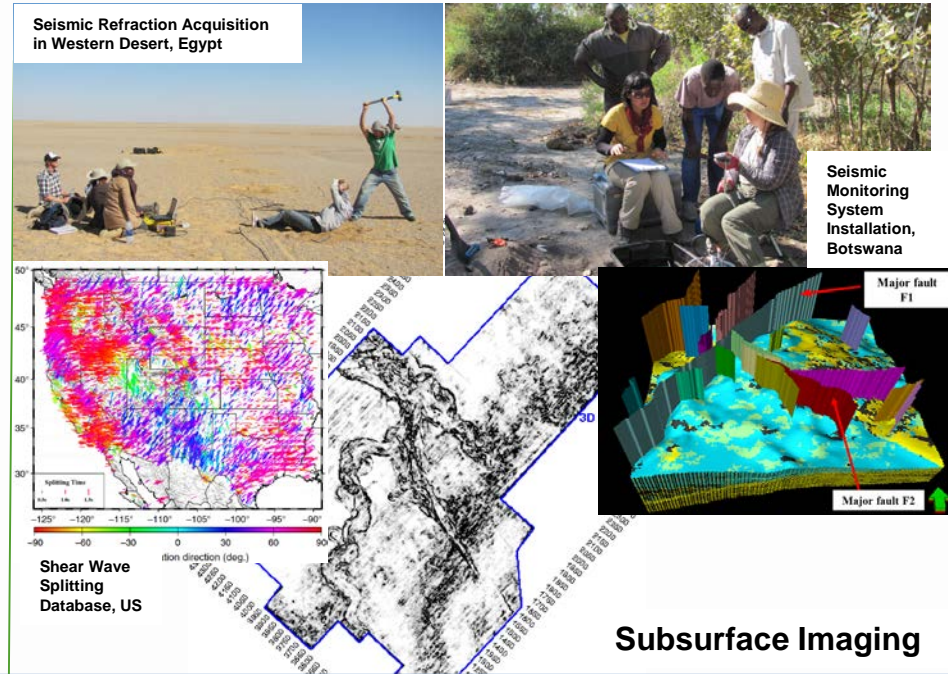
## Layered Structure Detection in the Earth's Crust and Mantle

- Imaging crustal and mantle layering utilizing wave conversions
- Crustal composition and evolution

## Several Research Topics

- Passive seismic investigations for the formation mechanisms of intracratonic basins
- Mantle anisotropic structure and dynamics using shear wave splitting measurements

<http://ds.iris.edu/ds/products/sws-db-mst/>



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- National Science Foundation
- American Chemical Society
- Statoil

## Keywords

- #Seismic Interpretation, #Digital Signal Processing
- #Seismic Anisotropy, #Geophysics

## Recognitions

- Faculty advisor for student competition teams.  
<http://news.mst.edu/2015/03/missouri-st-software-design-team-wins-competition>
- S&T outstanding teaching award, 2008
- S&T Academy of Mines and Metallurgy senior faculty award, 2016