

**Dr. T.N.Singh**  
**Professor**

**Rock Mechanics, Natural disaster,  
Climate change, Mining Research,  
Surface Mining**

- Slope Stability,
- *Tunnel Design and its stability.*
- Rock Science and Rock Engineering.
- Numerical and soft computing

# Slope stability

- Natural and Engineered slope – Prediction ,prevention and protection .
- Monitoring and mitigation for slope.
- Physical and Numerical tools used for the study

# Rock Mechanics for

- Protection of life
- Protection of properties
- Prevention of Disasters
- Protection of climatic changes

# Area where Engineering Geology Helps ?

## ➤ **Rock Excavation**

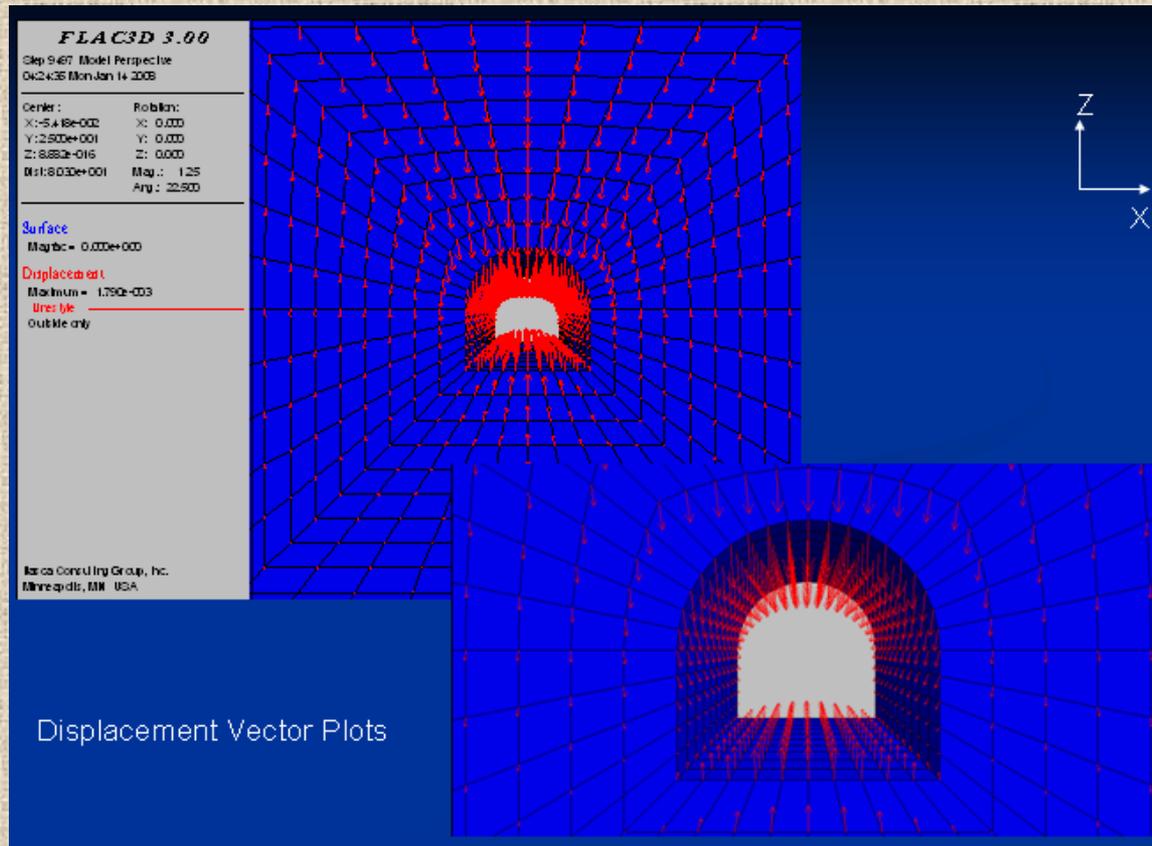
- **Surface**
- **Underground**

## ➤ **Mineral and Fossil-Fuel Resources**

## ➤ **Transportation**

- **Road**
- **Tunnel**
- **Water Transportation**

# Tunnel and Tunneling technology



*Thank you*