

Structural Geology Presentation Topics (PowerPoint Presentations)

Presentation Topics (Presented during last 2 weeks of Class)

- | | <u>Name</u> |
|---|-------------|
| 1. Geology of the Talladega Belt in Alabama | _____ |
| a. Regional Geology, Age of Units, and Tectonics | _____ |
| b. Stratigraphy | _____ |
| c. Structural Geology | _____ |
| d. Metamorphic Petrology | _____ |
| 2. Grenville Basement Igneous & Metamorphic Rocks of the Llano Uplift | _____ |
| a. Regional Geology, Age of Units, and Tectonics | _____ |
| b. Stratigraphy | _____ |
| c. Structural Geology | _____ |
| d. Metamorphic Petrology | _____ |
| e. Igneous Petrology | _____ |
| 3. Paleozoic and Younger Cover Sequence Rocks in the Llano Uplift | _____ |
| a. Regional Geology, Age of Units, and Tectonics | _____ |
| b. Stratigraphy | _____ |
| c. Structural Geology | _____ |
| d. Biostratigraphy and Paleontology | _____ |
| e. Sedimentary Petrology | _____ |
| 4. Geology of the Precambrian Sangre De Cristo Range of New Mexico | _____ |
| a. Regional Geology, Age of Units, and Tectonics | _____ |
| b. Stratigraphy | _____ |
| c. Structural Geology | _____ |
| d. Metamorphic Petrology | _____ |
| e. Igneous Petrology | _____ |
| 5. Geology of Mesozoic Strata in northern New Mexico | _____ |
| a. Regional Geology, Age of Units, and Tectonics | _____ |
| b. Stratigraphy | _____ |
| c. Structural Geology | _____ |
| d. Biostratigraphy and Paleontology | _____ |
| e. Sedimentary Petrology | _____ |

Possible Alternative Topics (Approved by Instructor)

1. Tectonic Evolution of the Appalachians
2. Salt Dome Tectonics
3. Superposed Folding
4. Ramp-Flat Model of Thrusting
5. Transform Boundary Transtensional and Transpressional Zones
6. S/C Mylonite Development
7. Meteorite Impact Structures
8. Laramide Orogeny
9. Grenville Orogeny
10. Fault Duplex Structures
11. Continental Rifting
12. Low-angle Detachment Faults
13. Suspect Terranes
14. Ophiolites
15. Tectonic Melanges
16. Pore Fluid Pressure and Thrusting
17. Allocogens (Failed Arm Rifts)
18. Ductile Shear Zones
19. Accretionary Tectonics
20. Seismic reflection/refraction analysis of Structures
21. Basin & Range Tectonic Models
22. Mid-ocean ridge Triple Points
23. Seismic 1st Motion Studies of Faulting

NOTE: other topics are fine but check with your instructor first to get the topic approved.