

ES476/576 Hydrology Schedule Update
Peer-to-Peer Learning Model (Presentation Schedule)

Week 8 / Wed. Feb 26 (Surface Water / Groundwater)

Preparation Week / Taylor Lecture-Demonstrations

Week 9 / Wed. Mar. 5 (Groundwater)

HAT PARTY DAY! Everyone wear a hat
Prizes for creativity and best in show!

4:00-4:10 Taylor Introduction
4:10-4:30 Korecki (Groundwater Subsidence)
4:30-4:50 Shields (Pump Tests)
4:50-5:10 Loree (Aquifer Storage Recovery)
5:10-5:30 Brown (Cable Tool Drilling)
5:30-5:50 O'Neil (Sink Hole Hazards)
5:50-6:10 Wellington (Natural Gamma Ray Logging)
6:10-6:30 Chambers (Salt Water Intrusion)
6:30-7:00 Taylor Conclusion

Week 10 / Wed. Mar. 12 (Groundwater)

PAJAMA PARTY DAY! Everyone wear their PJ's
Prizes for creativity and best in show!

4:00-4:10 Taylor Introduction
4:10-4:30 Licata (Air Rotary Drilling)
4:30-4:50 Fowler (Drawdown-Recovery Curves)
4:50-5:10 Young (Standard Penetration Test / RQD)
5:10-5:30 Quiles (Caliper Borehole Logging)
5:30-5:50 Hale (Injection Wells)
5:50-6:10 Schmidt (Slug Tests)
6:10-6:30 Hugmeyer (Hyporheic Zones)
6:30-7:00 Taylor Conclusion

Materials for Presentation:

1-page handout / outline with key summary bullet points on topic

Optional creative problem solving or a video-clip (youtube, etc.) illustrating the topics

10 to 15-minute powerpoint presentation with images and text on topic, list key take-home message (3-4 slides at most)

Topics of Choice – Choose One Unique Topic per Student

1. Capillary Fringe
2. Soil Water / Wilting Point
3. Drawdown-Recovery Curves
4. Injection Well
5. Groundwater Subsidence Hazards
6. Salt Water Intrusion Hazards
7. Sink Hole Collapse Hazards
8. Hollow Stem Auger Drilling
9. Cable Tool Drilling
10. Air Rotary Drilling
11. Standard Penetration Test and Rock Quality Designation (RQD)
12. Well Head Protections
13. Aquifer Storage Recovery System
14. Pump Test Technique
15. Slug Test Technique
16. Caliper Borehole Logging Technique
17. Natural Gamma Ray Logging Technique
18. Direct Push Drilling Technique
19. Hyporheic Zone Exchange

Presentation Project = 20 Pts