**Earth Science Issue 2, Option 4: Yucca Mountain Nuclear Waste Repository**

***ESI 2 is due in the Brightspace assignment folder before class on Mar 23***

For all ESI assignments, your response should include **three parts**. The **first part** should be a brief summary of this event/issue (with two creditable sources cited), the **second part** should focus on the **three questions** listed below (with at least two creditable sources), and the **third part** should be a personal response describing how your understanding of the science has impacted your perspective of this issue. Note that this last part is not just a statement of your perspective, but a reflection on how knowing the background science affects your perspective.

**Questions:**

(1) What is the geological setting of the proposed Yucca Mountain nuclear waste repository and how does this geology influence the suitability of the site for this purpose?

(2) What are the concerns voiced by opponents of the project and how are their criticisms countered by defenders of the project? (Pay particular attention to those with a geological element such as seismic activity, faults, and ground water).

(3) What is the current and future outlook for development of the site, and for nuclear waste disposal in the United States in general?

**Format for all ESI assignments:**

* 1-2 pages
* 12 point, Times New Roman font
* Double spaced, no extra lines between paragraphs, begin on first line of page 1
* Put name, date, and course assignment in the header, single spaced (example above).
* There should be no direct quotations in your response.
* Citations should be in APA format, with parenthetical in-text citations (author, date) and a reference list at the end. Reference list does not count toward your page limit. This website shows how to follow this citation style, which is commonly used in the sciences. <https://owl.english.purdue.edu/owl/resource/560/05/>
* Check out this website to help evaluate whether your sources are credible: <https://owl.english.purdue.edu/owl/resource/588/02/>. Note that groups that have a specific agenda other than education or spreading of science are likely not credible sources of science. News media is fine for summarizing your event, but should not be relied on for scientific information.

**Grading Rubric:**

30 pts - Included everything in the assignment (three parts, answered all questions, formatted correctly, citations/references included, proper length)

30 pts - Content was complete and correct

30 pts - Response is clear and coherent (this means it has to be well written, proofread, etc.)

10 pts - Response was particularly thoughtful and/or creative