

PHYS-2028: Great Ideas in Science II

The Changing Earth Module Project, Spring 2009

Students will break up into 4 groups and present an oral presentation on either Tuesday, **February 10, 2009** or Thursday, **February 12, 2009** and submit a term paper that contains a minimum of 6 pages and due on **February 10, 2009**. **Your oral presentations are to last no longer than 35 minutes!** Practice your talk first to make sure you don't go over. The topic of your project is to be one of the topics presented below. I have selected membership of each of the 4 groups:

- **Group 1:** Melia Baker, Aneel Deshmukh, Molly Noseworthy, Brittney Rudder, and Elise Wolf. (Presentation on 2/12.)
 - **Group 2:** Juliane Armstrong, Brian Bowman, David Crabtree, Rebecca Foxx, and Landon Zink. (Presentation on 2/10.)
 - **Group 3:** Jeremy Brooks, Travis Clark, Nick Peppers, Brett Pearson, and Jeremy Wilder. (Presentation on 2/10.)
 - **Group 4:** Mark Hogstrom, Joe Powell, Melanie Norris, Anna Lora Richesin, Haley Stinnett, and Taylor Hartley. (Presentation on 2/12.)
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Let Dr. Luttermoser know which project your group will work on by January 29, 2009 (this Thursday). Project topics to choose from (one per group, no duplicate projects):

1. The History and Geology of Mars.
2. Formation of the Earth-Moon system and the impact the Moon has on the geologic history of the Earth.
3. Plate tectonics: discovery, modeling, and how the plates have moved through time.
4. The ozone layer: its origin, history, and future.
5. The thermodynamics of planetary atmospheres.
6. Extrasolar planetary systems.
7. Modeling the structure of the Earth's atmosphere.
8. The magnetic field of the Earth: how it is produced, how and why it changes over time.
9. Any miscellaneous topic discussed in the first (geology and atmospheric science) module of the course and approved by the instructor.