

THE GREAT FE DEBATE!

“Give me a tanker full of Fe, and I will give you an ice age.” – Dr. John Martin

Geo-engineering our way out of future climate change is now seriously being considered as a path forward. One of the options to decrease CO₂ in the atmosphere is to add Fe to areas of that are Fe-limited in the hopes of increasing phytoplankton productivity and ultimately export production.

You have been broken into teams (see below). Your job is to develop a reasoned argument for or against Fe-fertilization given the viewpoint (i.e., the team) you represent. We will hold a debate in class Thursday, and the winning team will receive a million dollars (not really, but something fun).

On our class website, I have posted papers that will help you get started. But don't stop there – dig into the literature as a team and develop an appropriate, evidence based argument. You can use the chalk board, handouts, a poster you create, etc. to help persuade the audience.

Tuesday (3/19) – you will meet as class without me to work in your teams to prepare for Thursday.

Thursday (3/21) – you will debate Fe fertilization.

- Additionally, each team will hand in a 2 page typed, fully referenced document that clearly outlines your argument. This is due in class on 3/21.
- Each team will have 5 minutes (strictly timed) to present their reasoned argument.
- We will then have 10 minutes of questions between teams.
- Followed by 10 minutes of questions from the judging panel.
- Next a 2 minute final word from each team.
- Then the ruling.

***Note everyone on a team should play a role and speak!*

One more twist – the panel judging the debate will be selected randomly, on Thursday, from the class. So everyone in each team should be able to articulate the team's ideas or you might be on the debate judging panel.

Team Descriptions:

1. **Fe-Inc.:** A start-up company focused on decreasing atmospheric CO₂ through fertilizing the world's oceans.
 - Elizondo, Elani, Beatriz (eber2016@bu.edu)
 - Harrington, Joshua, Paul (joshuaph@bu.edu)
 - Jiang, Rachel, Y (ryjiang@bu.edu)
 - Kim, William (willkim@bu.edu)
 - Masterman, Julia, Rae (juliarm@bu.edu)
 - Snow, Elliott (efsnow@bu.edu)
2. **NSF funded Scientists:** You are a group of scientists funded by the National Science Foundation to experimentally test the efficiency of Fe fertilization.
 - Antone, Megan, Lisa (mantone@bu.edu)
 - Chen, Xuqing (xqchen@bu.edu)
 - Cronin-Golomb, Olivia, Pearl (oliviag@bu.edu)
 - Dickerson, Hayden, Edward Whitfield (haydendu@bu.edu)
 - Kruh-Needleman, Hallie, Elizabeth (halliekn@bu.edu)
 - Thompson, Sadie (smthomps@bu.edu)
3. **FFO (Fisher Folks of the Ocean):** You are a non-profit group focused on protecting the rights of fisher folks and the sustainability of ocean fishing.
 - Hwang, Ryan, M (rhwang98@bu.edu)
 - Klawon, Caitlynn, Rose (klawon@bu.edu)
 - Kropp, Shannon (skropp@bu.edu)
 - Pelose, Gregory, Edward (gpelose@bu.edu)
 - Zawilinski, Karina, Pauline (karinaza@bu.edu)
 - Golini, Olivia (ogolini@bu.edu)
 - Russo, Julia, Celestine (jcr07@bu.edu)
4. **PAG (Parents Against Geo-engineering):** You are a group of parents against all geo-engineering practices because of the potential harmful and unknown side effects.
 - Granberry, Coretta, Lee (corettag@bu.edu)
 - Kennedy, Brian (kennedyb@bu.edu)
 - Rogers, Michaela (mmrogers@bu.edu)
 - Rotger, Clara, Marion (clarar@bu.edu)
 - Taylor, Jacob, Francis (jftaylor@bu.edu)
 - Khayter, Meira (mkhayter@bu.edu)
5. **Act-Now, Inc:** You are a non-profit organization focused on using geo-engineering solutions for a better, more sustainable planet.
 - Barcala, Anna, Aurora (abarcala@bu.edu)
 - Castellon, Jazmin, Elizabeth (cjazmine@bu.edu)
 - Cheadle, Imani, L (cheadle@bu.edu)

- Pham, Tony, V (tpham10@bu.edu)
- Weiser, Matthew (mwweiser@bu.edu)
- Layland, Evelyn (elayland@bu.edu)