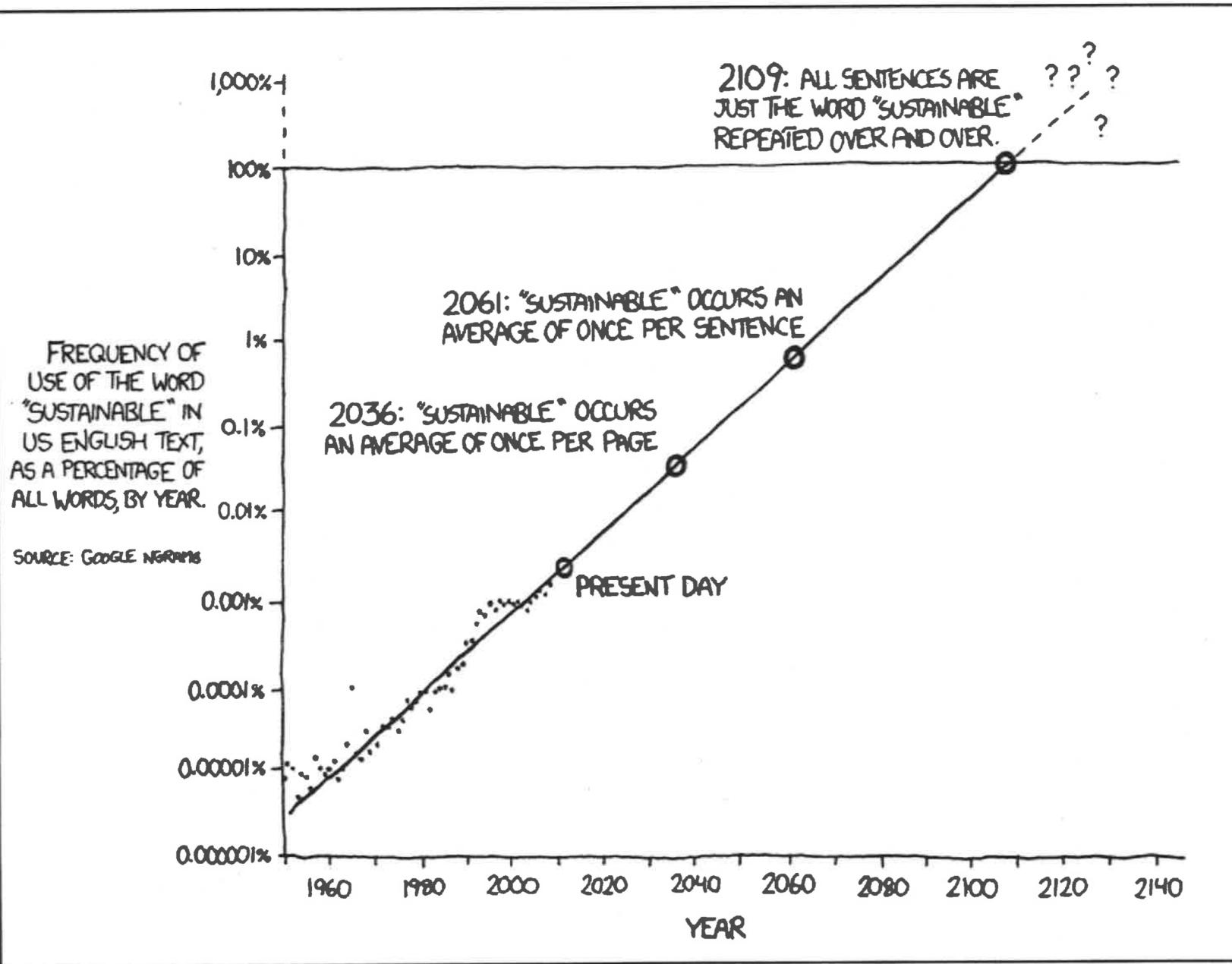


Announcements

- Blog post assignment 1, due Friday (9/6) instead of Monday (9/2), due to technical problems with Wordpress.
- Quiz on Wednesday
- Quiz Prep Document on website
- Bring textbooks to class on Monday to work on Quiz Prep. I'll bring laptops.



THE WORD "SUSTAINABLE" IS UNSUSTAINABLE.

What is Environmental Engineering?

CENG340

Friday, September 30th

Bucknell University

Last Time

Biological treatment of the surfactant 2-butoxyethanol

- Where to start:
 - Concentration in influent: 0.08% (w/v) and effluent (1 mg/L)
 - Effluent concentration: 1 mg/L
- Information needed:
 - Flow rate & volume of reactor
 - How toxic is 2-butoxyethanol?
 - Composition of flow-back fluid
- Questions:
 - Ways to reduce flow back fluid
 - Other treatment technologies?
 - Cost?
 - Dilution? Separation?
- Potential problems:
 - Formation of other pollutants

Your interests (in relation to this course)

- Environmental ↔ Civil projects and designs (7)
- What do environmental engineers do? (5)
- Energy (5)
- Waste management (2)
- Climate change (2)
- Clean water, green engineering, water crisis, conservation, water infrastructure and the global south, groundwater remediation and geotech, daily activities w/ sig. environ. impacts, how environ. policy affects engineering projects, etc.

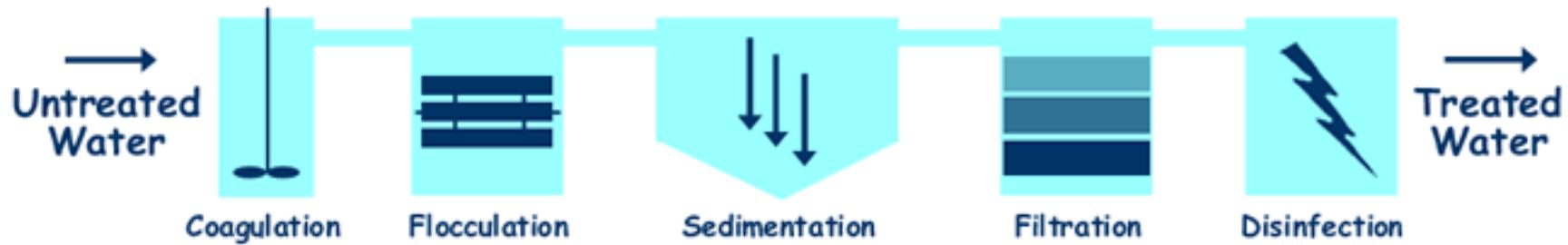
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Environmental engineers protect people from the environment, and the environment from people.



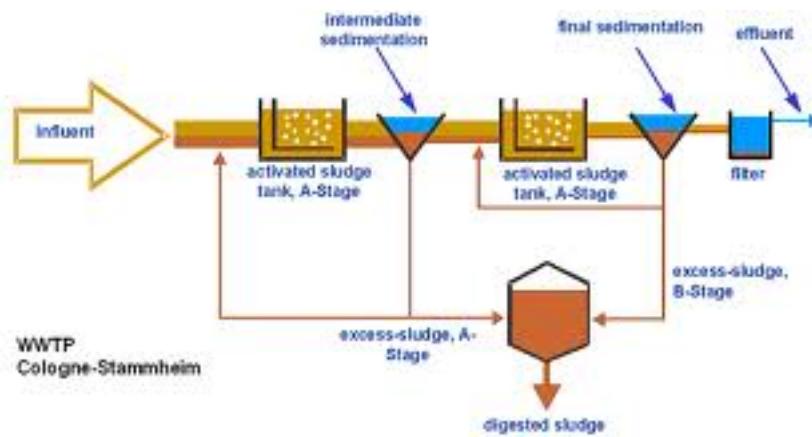
Environmental engineers design, monitor, and operate drinking water treatment facilities



Environmental engineers design, monitor, and operate wastewater treatment facilities



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Environmental engineering prevents the spread of *Vibrio cholera*



Copyright © 2004 Dennis Kunkel Microscopy, Inc.



Environmental engineers plan and supervise cleanup of hazardous waste sites



<http://www.arrservices.com/>

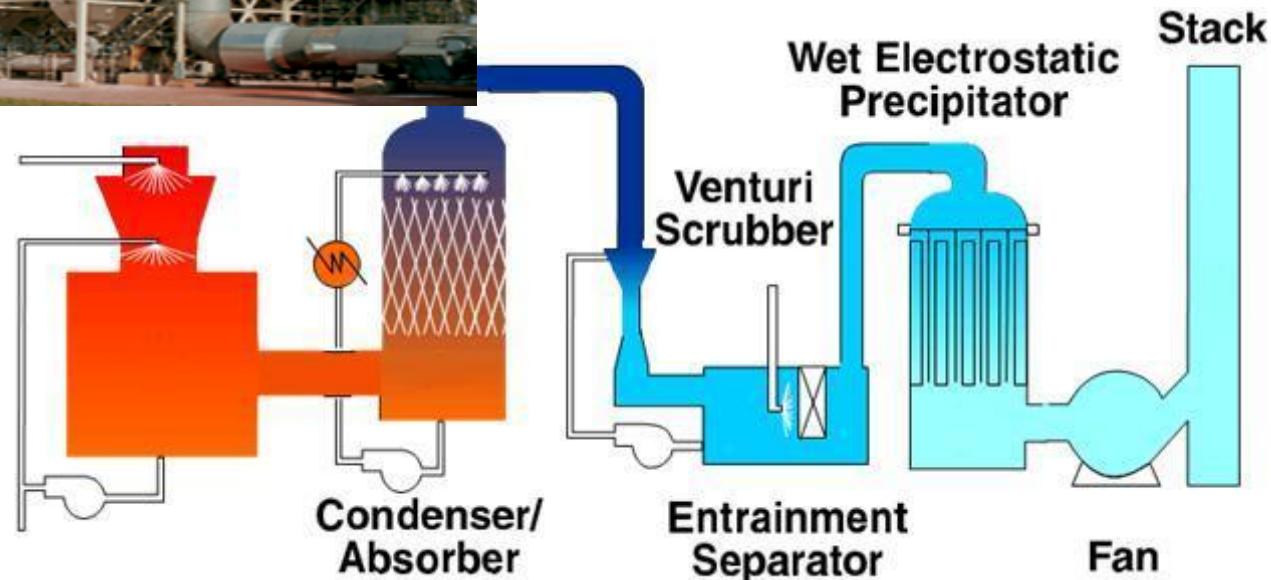


<http://www.qualworks.com/>

Environmental engineers design, operate, and monitor air pollution control technologies



<http://t3.gstatic.com/images>



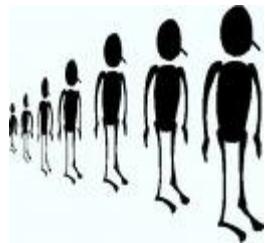
<http://www.envitechinc.com>

We'll study effects
of various forms of
pollution, and
technologies used
to treat pollution



State of the Planet

population



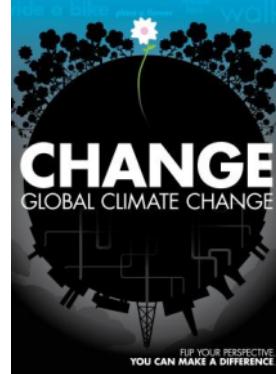
water supply & quality



energy



climate change



Public Health
Prevent. Promote. Protect.



food production & demand