

Term Paper Topics – CE421/521 Fall 2004

1. Rob Baker: Composting municipal solid waste*
2. Jennifer Black: Fuel cell microbes. (See Mary Rasmussen)
3. Karen Bodach: Bioremediation of petroleum/hydrocarbon spills in soil *
4. Patrick Brown: Biological remediation of pharmaceuticals/endocrine disruptors*
5. Curt Dettmann : Bioremediation of unwanted organics in soil **
6. Ryan Eisele: Use of Bioremediation in Cleaning up Oil Spills (see Karen Bodach and Katie Pfeiffer)*
7. Gino Forcucci: Degradation of explosives in the environment*
8. Ferit Isik:
9. Adam Johnson: Determining the half-lives of new organic compounds
10. Kristi Julius: Ozone disinfection of water *or* Bioengineered bacteria for oil spill bioremediation *
11. Warisara Lertpaitoonpan: Aerobic treatment of swine waste *
12. Sarah Look: Constructed wetlands for treatment of non-point source pollution in an urban context (see Nicholas Monserud)*
13. Feng Mao: Inhibition of nitrification by heavy metals*
14. Nicholas Monserud: Treatment of wastewater through wetlands or wetland treatment of mine drainage (see Sarah Look)*
15. Stephanie Peters: Waste management for dairy farms or utilizing wetlands for stormwater pollution control*
16. Brent Perz: Bioremediation for chemical spills in the environment.**
17. Katie Pfeiffer: Biodegradation of crude oil in a marine environment *
18. Mary Rasmussen: Microbial fuel cells, in particular with their application in wastewater treatment (see Jennifer Black)
19. Stacy Scott: Application of membrane bioreactor technology to wastewater treatment/reuse or biological nitrate removal for drinking water treatment (see Tony Trotter)*
20. Prachand Shrestha: Terrorist attack on environmental infrastructures: preparedness, implications and preventive measures
21. Justin Simon: How microbes break down wastewater and make it suitable for reuse as grey water*
22. Tony Trotter: Membrane bioreactors (see Stacy Scott)*
23. Andrew Wagner:
24. Doug van Werden:
25. Cheng Wang: Removal of nitrogen from wastewater by biological treatment.**

* indicates that this is a broad topic that will need to be narrowed down