



# Environmental Remediation Sciences

*The forgotten messages*

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*J. Michael Kuperberg  
U.S. Department of Energy  
Office of Science  
Office of Biological & Environmental Research  
Environmental Remediation Sciences Division*



# Performance Monitoring

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- Long-term measure
  - “By 2015, provide sufficient scientific understanding to allow a significant fraction of DOE sites to incorporate coupled biological, chemical and physical processes into decision making for environmental remediation”
- Annual Targets
  - FY 2006: Develop predictive model for contaminant transport that incorporates complex biology, hydrology, and chemistry of the subsurface. Validate model through field tests
  - FY 2007: Implement a field-oriented, integrated experimental research program to quantify coupled processes that control reactive transport of at least one key DOE contaminant.
  - FY 2008: Identify the critical redox reactions and metabolic pathways involved in the transformation/ sequestration of at least one key DOE contaminant in a field environment.



# Questions?

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- Use of EMSL
- Use of synchrotron light sources
- What does “mission agency” mean to me?
- Long-term measures
  - “....but I just want to do my science”
- What do we have against organics?
- How can I learn more about the program?
  - Participate on review panels
  - Call your program manager and ask
  - [http://www.sc.doe.gov/ober/ERSD\\_top.html](http://www.sc.doe.gov/ober/ERSD_top.html)