In General...

- Evolutionary vs. Revolutionary
- Regulatory
- Are we in the boom?
  - Include the US
  - Energy security
Research Opportunities

• Reserve Calculations
  • Potential for Large Unknowns
  • Post-mining Investigation
  • Dry Aquifers

• Aquifer Restoration
  • Bioremediation
  • Well Plugging
  • Monitoring
  • Multi-disciplinary

• Lixiviant Injection
  • Delivery
  • Other Lixiviants
  • Production Variables
Research Opportunities

- Drill Rig Design
  - Technology Advances
  - Safety
- Wellfield Efficiencies
  - Monitor Well, Solar Powered
  - Remote Monitoring
- Spill Issues
  - Regulatory Aspects
  - Risk Assessment
Back-up Slides

- Wellfield Pics
- Wellfield map
- Ore Body
- Wellfield Drilling/Maint
- Mine Unit Installation
- Injection Well
- Production Well
- Header House
  - Construction
  - Completed

- Completed Wellfield
- Mining Process/Satellite
- Processing Plant
  - Flow Chart
  - Elution/Precipitation
  - Thickener/Dryer
  - Filter Press/Packing
- Groundwater Restoration
  - Reverse Osmosis
  - Bioremediation

Research Opportunities: Slide 1  Slide 2