Acknowledgements

• Doug Grosse, ORD
• David Reisman, ORD
• Shahid Mahmud, OSWER
• Barbara Butler, ORD
• Michele Mahoney, OSWER
• Gwen Campbell, Region 8
• Joy Jenkins, Region 8

• Rob Weber, Region 7
• Jim Lazorchak, ORD
• Chris Impelletteri, ORD
• Alina Martin, SAIC
• Susie Warner, SCG
• John McCready, ORD
• Cindy Sundblad, Region 8
Can We Efficiently

- Extract and utilize resources (including by-products)
- Manage wastes
- Reclamation/restoration
- Produce socio-economic advantages
- Advancing Solutions for a New Legacy
Estimate of Mining Sites in the USA
Collaboration

- EPA Program & Regional Offices
- NRMRL/ORD
- Industry Partners
- States/Tribes
- Western Governors Association
- Academia
- BLM/Forest Service
- DOE/DOD
- USGS
ORD’s Mining Programs

• Mine Waste Technology Program
• Engineering Technical Support Center
• Technology Transfer Program
Mine Waste Technology Program

- **EPA-NRMRL**
  - Technical Direction/Oversight
  - Quality Assurance Oversight
- **DOE**
  - Administrative Oversight
- **MSE**
  - Applied Research
  - Field Demonstrations
  - Technology Implementation
- **Montana Tech**
  - Basic Research
NRMRL Engineering Technical Support Center

• Constructed Wetlands
• Bioremediation
• MIW Treatment Processes
• Liquid/Solid Partitioning
• Electrolytic Processes
• Sequestration
• Capping
ORD Technology Transfer and Outreach

1998 Heavy Metals Contamination Workshop – 150 attendees
1998 Mining Workshop – 300 attendees
1999 Heavy Metals Contamination Workshop – 180 attendees
1999 Pit Lakes Workshop – 240 attendees
2000 Mercury Workshop – 275 attendees
2001 Arsenic Workshop – 70 attendees
2002 Hard Rock Mining Conference – 375 attendees
2003 Workshop on Mining Impacted Native American Lands – 275 attendees
2004 Pit Lakes – 250 attendees
2005 Abandoned Mine Lands Workshop – 100 attendees
2006 Hard Rock Mining Conference – 350 attendees
2007 Abandoned Mine Lands Workshop – Coeur d’Alene, Idaho
1993-2006 Mine Operations, Design, and Closure Conferences
## 2012 Registration by Affiliation

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<th>Affiliation Type</th>
<th>No. of Registrations</th>
<th>Percentage</th>
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U.S. EPA HRM 2012
Conference Agenda

Tuesday, April 3rd
Plenary – Doug Grosse and David Reisman, ORD
Case Studies – Joy Jenkins, Region 8
Innovative Technology and Techniques – Rob Weber, Region 7
Evening – Poster Session

Wednesday, April 4th
Remediation and Stabilization: Natural Materials – Michele Mahoney, OSWER
Monitoring and Treatment – Erna Waterman, Region 8
Engineering Covers and Capping – Doug Grosse, ORD
Metals and Metalloids – Barbara Butler, ORD
Rare Earth Elements – Gwen Campbell, Region 8
Sustainability/Life Cycle – Carol Russell, Region 8
Evening – Poster Session

Thursday, April 5th
Case Studies – Joy Jenkins, Region 8
Opportunities for Re-Use and Site Management – Shahid Mahmud, OSWER

Closing Remarks and Q&A
U.S. EPA Websites

EPA’s Abandoned Mine Lands Program:
http://www.epa.gov/superfund/programs/aml

Mine Waste Technology Program:
http://www.epa.gov/nrmrl/std/mwt/

NRMRL:
www.epa.gov/nrmrl