



KRCEE FACT SHEET

The Kentucky Research Consortium for Energy and the Environment (KRCEE) was created in 2003 through a \$5 million earmark resulting from the efforts of US Senator Mitch McConnell. The KRCEE mission is to support Department of Energy efforts to complete the expeditious and economically viable environmental restoration of the Paducah Gaseous Diffusion Plant, WKWMA, and surrounding areas through:

- Application of technical expertise to assess and accelerate the implementation of cost-effective technologies and methodologies that will result in accelerated clean-up and risk reduction.
- Establishment of problem-specific Project Teams drawn from disciplines of expertise at participating universities that would work with and through DOE and its contractors to accelerate the implementation of project concepts and plans.
- Technical review of proposed remediation plans and any non-consensus technical issues associated with their implementation.
- Utilization of Project Teams to interface directly through DOE with DOE national laboratories, EPA, and state regulatory agencies to help forge consensus solutions to technical problems related to the clean-up and ongoing operations of the PGDP site.
- Accomplishment of targeted long-term and short-term projects tasks designed to support the accelerated clean-up plan for the PGDP.

The activities of the KRCEE are administered through the University of Kentucky's Kentucky Water Resources Research Institute. Annual workplans, deliverables, and associated project budgets are developed through consultation with DOE and address both short-term and long-term tasks to ensure relevancy to ongoing remediation efforts.

For more information about the Kentucky Research Consortium for Energy and the Environment, visit www.uky.edu/krcee or contact Dr. Lindell Ormsbee at lormsbee@engr.uky.edu.

Please join us for the **KRCEE Scientific and Technical Symposium**, Oct. 30th and 31st, at the Marriott Griffin Gate Resort in Lexington, KY.



KRCEE PROJECTS

Metal Recovery Projects

- Project 1 Economic Analysis of Nickel Release
- Project 2 Industrial Battery Applications for Depleted Uranium
- Project 9 Purification and Recovery of Radiologically Contaminated Metals

Seismic/Geologic Projects

- Project 4 Development of a Conceptual Stratigraphic Model for the PGDP
- Project 8 Expanded Seismic Network
- Project 11 Seismic Assessment of the PGDP
- Project 16 Investigation of Structural Features to Little Bayou Creek
- Project 17 Holocene Investigation
- Project 21 Deep Hole Project

Groundwater Projects

- Project 3 Groundwater Modeling
- Project 7 Groundwater Technology Assessment
- Project 12 Groundwater Sensitivity Analysis
- Project 15 S&T Landfill Investigation
- Project 22 Assessment of Natural Attenuation of TCE

Surface Water Projects

- Project 5 Evaluation of Sediment Technologies for the PGDP
- Project 6 Surface Water Assessment of the PGDP
- Project 10 Demonstration of Sediment Technologies for the PGDP
- Project 14 TMDL for Bayou and Little Bayou Creeks

Ecological Projects

- Project 19 Ecological Assessment of the KYWMA

Technology Development Projects

- Project 13 Destruction of TCE Using Oxidative & Reductive Pathways
- Project 18 Real Time Remediation Demonstration
- Project 20 GIS and Database for the PGDP