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A team of National Energy Technology Laboratory (NETL) scientists has developed a patent-pending tracer technology that will receive *R&D Magazine's* prestigious R&D 100 Award, which annually recognizes the 100 most technologically significant products to enter the marketplace in the past year.

NETL scientists receiving the award are Brian Strazisar, J. Rodney Diehl, and Arthur Wells. They will receive their awards during *R&D Magazine's* awards banquet in Orlando, Fla., on

November 12, 2009. According to *R&D Magazine*, the judges look for products and processes "that can change people's lives for the better" and "improve the standard of living for large numbers of people."

Brian Strazisar is a chemist and resides in Peters Township, Pa.; J. Rodney Diehl serves NETL as a physical scientist and lives in Brentwood, Pa.; and Arthur Wells is an NETL chemist, who resides in Bridgeville, Pa.; All work in NETL's Environmental Science Division.

The team developed the SEQUIRE™ Tracer Technology that uses perfluorocarbon tracers to ultra-sensitively detect CO₂ leakage from geological storage reservoirs. Since the capture and permanent storage of CO₂ is vitally important to addressing greenhouse gas emissions, the Office of Fossil Energy must have technology available to verify that CO₂ is not leaking from deep storage reservoirs in the nation's carbon sequestration program. This technology has been tested at several pilot-scale sites and has proven to be successful in detecting CO₂ in field simulation experiments.

NETL is one of the U.S. Department of Energy's national laboratories. NETL – "the ENERGY lab" – focuses on America's economic prosperity, which requires secure, reliable energy supplies at sustainable prices. Three overarching issues characterize the energy situation in the United States. They are energy affordability, supply security, and environmental quality. The Department of Energy's only government-owned, government-operated national lab, NETL is a research and technology center where these energy challenges converge and energy solutions emerge. NETL implements a broad spectrum of energy and environmental research and development programs through its own research staff and through funded research at other labs, universities, and industry that will return benefits for generations to come.

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