

U.S. Department of Energy
National Energy Technology Laboratory
Office of Public Affairs
P.O. Box 10940
Pittsburgh, PA 15236-0940



U.S. Department of Energy
National Energy Technology Laboratory
Office of Public Affairs
P.O. Box 880
Morgantown, WV 26507-0880

***NETL* REPORTS:**

News Media Contact:
Joe Culver 304/285-4822 or 304/282-7381

For Immediate Release
Appropriate Date May 23, 2008

NETL Researcher Presented with Prestigious Technology Transfer Award *Henry Pennline Awarded for Commercialization of Innovative Mercury-control Technology*

Henry Pennline, a chemical engineer and research group leader at the U.S. Department of Energy's National Energy Technology Laboratory (NETL), was recently presented with a 2008 Federal Laboratory Consortium (FLC) Excellence in Technology Transfer Award during the FLC National meeting, which was held May 5–8 in Portland, Ore.

The award recognizes Pennline's work in the commercialization of sorbents for the removal of mercury, arsenic, and selenium from fuel gas. The palladium-based sorbent, developed by Pennline and colleagues, captures pollutants from fuel gas in a high-temperature environment and addresses the need for a low-cost mercury removal technique that can be applied to integrated gasification combined cycle and coal-burning power plants. The successful technology transfer effort resulted in the licensing of the technology to the company Johnson Matthey for commercial development and application.

Pennline's award reflects his continuing dedication to commercializing the important technology he helped to develop. He is a member of the NETL Office of Research and Development's Separations and Fuels Processing Division, which studies advanced energy systems, such as hydrogen production, fuel cells, and related technology areas. Pennline and fellow scientists' research areas include gas cleanup of gasification streams, the removal of carbon dioxide and other greenhouse gases related to combustion processes, and the processing of fuels into valuable products, such as hydrogen, gasification of coal, biomass or waste materials.

Henry Pennline was born in Charleroi, Pa., and is currently a resident of Bethel Park, Pa.

The Excellence in Technology Transfer Award recognizes researchers who have helped to commercialize new and innovative technologies. The award is presented annually to federal employees who have accomplished outstanding work in transferring to industry a technology developed within their laboratory.

The Federal Laboratory Consortium—a national partnership of more than 700 major federal laboratories and centers, parent departments, and agencies—is a leading entity in maximizing collaborative research and the transfer of federal technologies to enhance the socioeconomic well-being of the nation in the global marketplace.

NETL is one of the Department of Energy's national laboratories. The laboratory manages and

implements a broad spectrum of energy and environmental programs. It employs approximately 1,100 federal employees and support-service contractors at sites in Pittsburgh, Pa., Morgantown, W.Va., Tulsa, Ok., Fairbanks, Alaska, and Albany, Ore.

-NETL-