

## **Underground flows and Wyoming's role as a laboratory**

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**Abstract.** Owing to its geology, Wyoming is a natural laboratory for inquiry into the world's energy and climate problems. Each of these problems has a portfolio of possible solutions in which the science of underground flows plays a critical role. Examples include enhanced oil recovery, carbon dioxide sequestration, the engineering of unconventional gas reservoirs, the production of methane from coal beds, uranium extraction, and the protection of groundwater aquifers in all of these technologies. Interdisciplinary vision and advances in computational science — two elements of George Pinder's intellectual legacy — have played important roles in the University of Wyoming's research program in underground flows.

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