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Petroleum Exploration and Production Center (PEPC)

The Petroleum Exploration and Production Center (PEPC) is an interdisciplinary educational and research organization specializing in applied studies of petroleum reservoirs. The center integrates disciplines from within the Departments of Chemistry and Geochemistry, Geology and Geological Engineering, Geophysics and Petroleum Engineering.

PEPC offers students and faculty the opportunity to participate in research areas including: improved techniques for exploration, drilling, completion, stimulation and reservoir evaluation techniques; characterization of stratigraphic architecture and flow behavior of petroleum reservoirs at multiple scales; evaluation of petroleum reserves and resources on a national and worldwide basis; and development and application of educational techniques to integrate the petroleum disciplines.

Background:

- Established in 1997
- Currently supported at a level of \$139,000 annually
- Includes guiding agency of Potential Gas Committee (145 industry members)

Areas of Expertise:

- Educational activities, in the form of supported student research and appropriate workshops for industry
- Development and application of more effective exploration techniques for conventional and unconventional reservoirs
- Characterization of stratigraphic architecture and flow behavior of petroleum reservoirs at multiple scales
- Evaluation of petroleum reserves and resources on a national and worldwide basis
- Development and application of educational techniques to integrate the petroleum disciplines

Sponsoring Organizations:

- American Gas Association
- Gas Research Institute
- Barrett Resources
- Ice Coring and Drilling Services, University of Wisconsin
- Jet Propulsion Laboratory, NASA

Method of Technology Transfer:

- Publications and reports
- Technical presentations and panel discussions

Spin-offs / Contributions:

- Ph.D. and M.Sc. graduates
- Database of U.S. natural gas resources

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