MODELING AND OPTIMIZATION OF ENERGY SYSTEMS

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NETL PROJECTS

- **Optimization in CO_2 capture systems**

  - **Learning from process simulators (Alison Cozad)**

  - **Synthesis of CO_2 capture systems using surrogate models (Zhihong Yuan)**

- **Permeability estimation**

  - **An application of derivative-free optimization to parameter estimation (Yan Zhang)**

http://www.fossil.energy.gov/programs/sequestration/overview.html
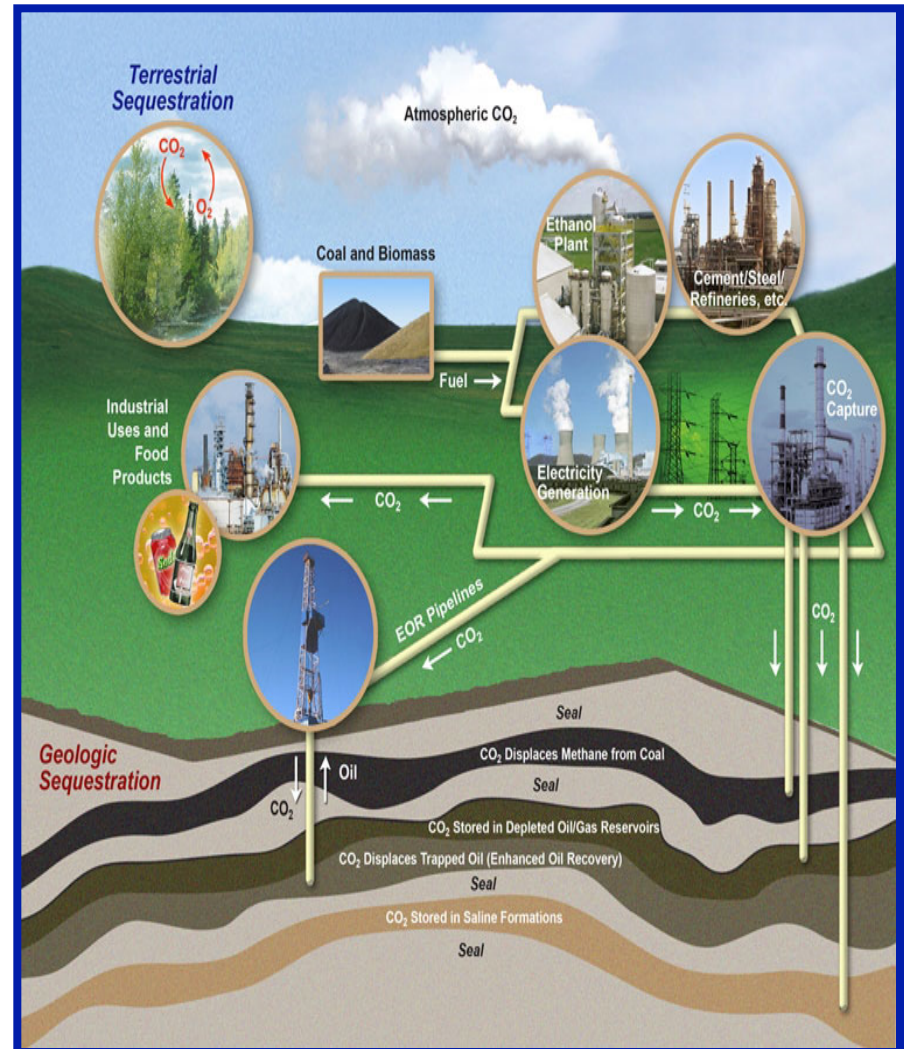
OTHER PROJECTS

- **Energy-conscious computing (Panos Vouzis)**
  - Computing with graphics processing units BLAST project (Jackie Chen)

- **Molecular design (Apurva Samudra)**
  - Heat transfer fluids for retail refrigeration
  - Heat transfer fluids for electronics cooling