

# Energy Projects: Ignacio Grossmann

## 1. Oil:

- a) Design and planning of deep-water **oilfield** development under uncertainty
- b) Scheduling **crude oil** operations
- c) **Refinery** planning optimization

## 2. Coal: Optimal synthesis of integrated **gasification** combined cycle (IGCC) systems

## 3. Biomass: Optimization and synthesis of **biofuel** processes

## 4. Water: Synthesis of **process water** networks

## 5. Design for **sustainability**

