



The Laboratory's research activities fall into the following areas:

- Development of an eight reactor pilot scale system for evaluation of hydrocracking catalysts
- Developments of new methods for FCC catalyst deactivation
- New process reaction schemes (catalyst, reactor, operating conditions) for producing fuels from biomass derived feedstocks
- Development of effective separation scheme for the extraction of useful chemicals from bio-oil
- Construction and operation of a prototype multi-fuel processor including biofuels for hydrogen production
- Development of advanced electrode materials for PEMFCs
- New catalytic materials for reactions/processes related to hydrocarbons and biomass conversion, hydrogen production, catalytic abatement of NO_x, and oxidative dehydrogenation of alkanes
- Novel synthesis routes for the preparation of advanced catalytic materials