

Reactors/Lab Plants

- Flow reactors for CO₂ methanation with an automated product analysis system
- CO₂ absorption/regeneration towers with on line gas analysis system
- Biomass/coal rapid pyrolysis – product GC/GCMS analysis system
- Pressurized continuous flow reactor (~20MPa)
- Coal hot briquetting apparatus
- Pyrolysis furnace
- High pressure reactor



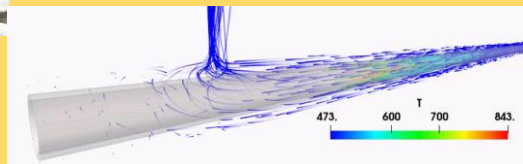
Analyzers

- TG/DTA
- GCs TCD, FID, FPD, FTD
- GC/MS
- HPLC UV-vis, RI
- Karl Fisher Titrator
- TOC
- In situ FT-IR (ReactIR)
- FT-IR
- Reaction calorimeter
- Micro GC
- Quadrupole mass spectrometer
- Automatic specific surface area/pore size distribution measurement instrument
- Automated catalyst analyzer



Software tools

- Gaussian
- TURBOMOLE
- COSMOtherm
- DETCHEM
- CHEMKIN
- Pointwise
- OpenFOAM
- COMSOL
- ParaView
- PRO/II
- Aspen



Time: 28.00

