



22 Professors Involved

ChE Calvin Bartholomew

ChE Larry Baxter

ChE Merrill Beckstead

 Jeffrey Bons ME

CS Mark Clement

 Eric Eddings ChFE

 Tom Fletcher ChE

 Fernando Fonseca CE

Hugh Hales ChE

Bill Hecker

JoAnn Lighty

Matt Linford Chem

ChE

ChFE

 Warren Lucas CE

 Mardson McQuay ME

Phys Justin Peatross

 Dave Pershing VP

 Ron Pugmire ChFE

 Adel Sarofim **ChFE**

Doug Smoot

Quinn Snell

Dale Tree

Brent Webb

ChE

ME

CS

ME







Research Faculty/ Postdocs

Scott Hill Combustion Resources, Provo

Søren Kær Denmark

Helle Junker Denmark

Geoff Silcox ChFE, U of U

Mark Solum ChFE, U of U

John Veranth ChFE, U of U

Angela Violi ChFE, U of U

Kevin Whitty ChFE, U of U

Plus ~30 graduate students ~45 undergraduate students



ACERC secretaries – Nicole Douglas, Trang Tran





Current Research Interests

Industries

- Electric power
- Chemical processes
- Forest products
- Transportation
- Cement
- Glass
- Military (safety)

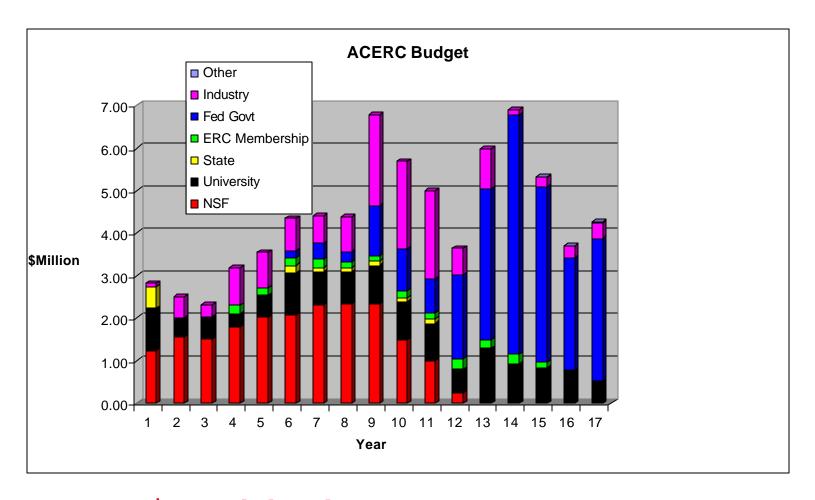
Fuels

- Coal
- Biomass
- Black liquor
- Petroleum coke
- Live fuels
- Natural gas
- Jet & diesel fuel
- Metallurgical coke
- Soot
- Foams
- Model hydrocarbons

Subjects

- Organic reactivity
- Ash
- Soot formation
- NO_x, SO_x
- Heat transfer (convective, radiative)
- CFD
- Parallel computing

ACERC Research Funds 1987-2002



Over \$75 million in research over 17 years!



Meeting Schedule

Thursday morning

Mineral Matter session chair: Larry Baxter, BYU

Thursday afternoon

 Mercury Issues session chair: JoAnn Lighty, U of U

Thursday evening

Poster session (by ACERC students)

Friday morning

 NO_x Reduction session chair: Eric Eddings, U of U

Friday afternoon

 Fuel Reactivity & Soot Formation session chair: Tom Fletcher, BYU



Announcements

- Congratulations to:
 - Professor Adel Sarofim, recently elected to the National Academy of Engineering
 - Professor L. Douglas Smoot, recipient of the DOE Homer Lowry Award in Fossil Energy, recently retired from BYU
- Special welcome to:
 - EPRI Biomass Interest Group IEA Biomass Interest Group
- Lunch today is in the food court
- Don't forget the poster session
 - 5:00 to 7:30 pm
 - Light buffet while you look at posters & talk to students
 - Poster contest (vote for your top three)
- Mormon Tabernacle Choir rehearsal (8 pm, Temple Square)



Member's Luncheon

- Friday at noon
- Time to discuss ACERC
- Suggestions
- Business opportunit

 If you feel like working with ACERC in the future, please come!