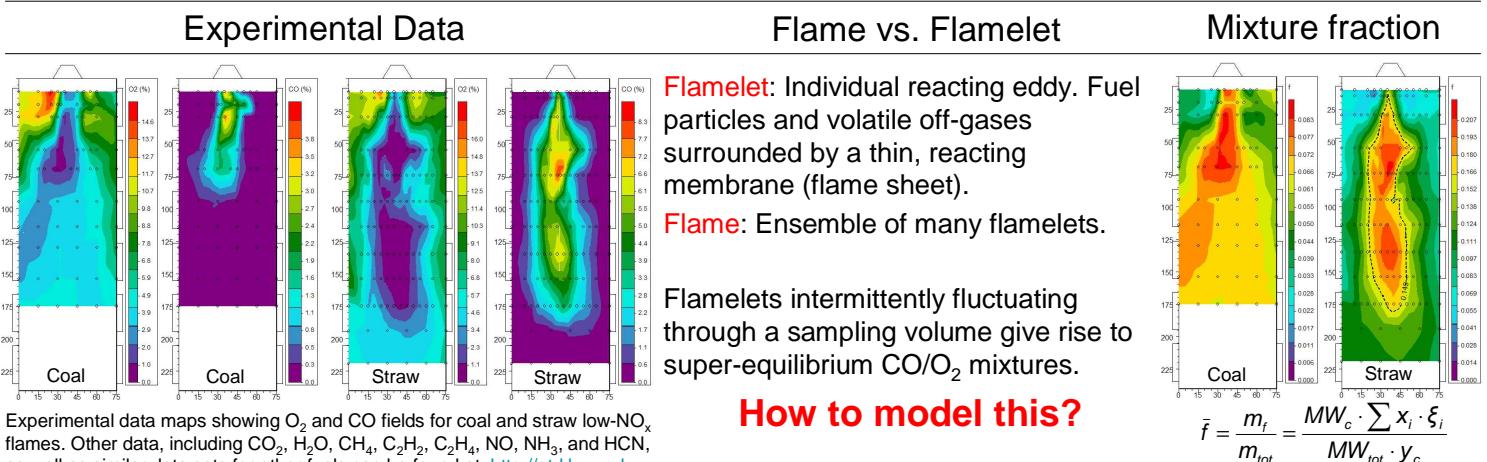


Comparison of Two Mixing Models with Experimental Solid-Fuel, Swirl-Stabilized Flame Data

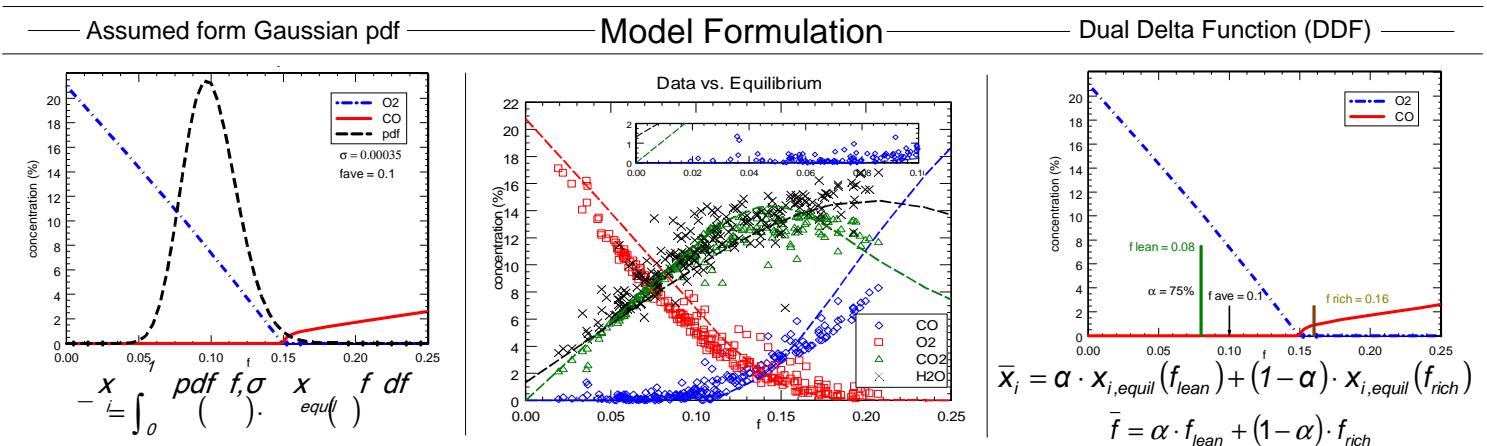
Brad Damstedt, Justin Jones, Craig Christensen, Chris Johnson, Tom Jones, Mads Muff, Dale Tree, Larry Baxter
Brigham Young University – 2007

Objective: Compare relative merits of the assumed form Gaussian pdf mixing model with a newly formulated model using dual-delta functions

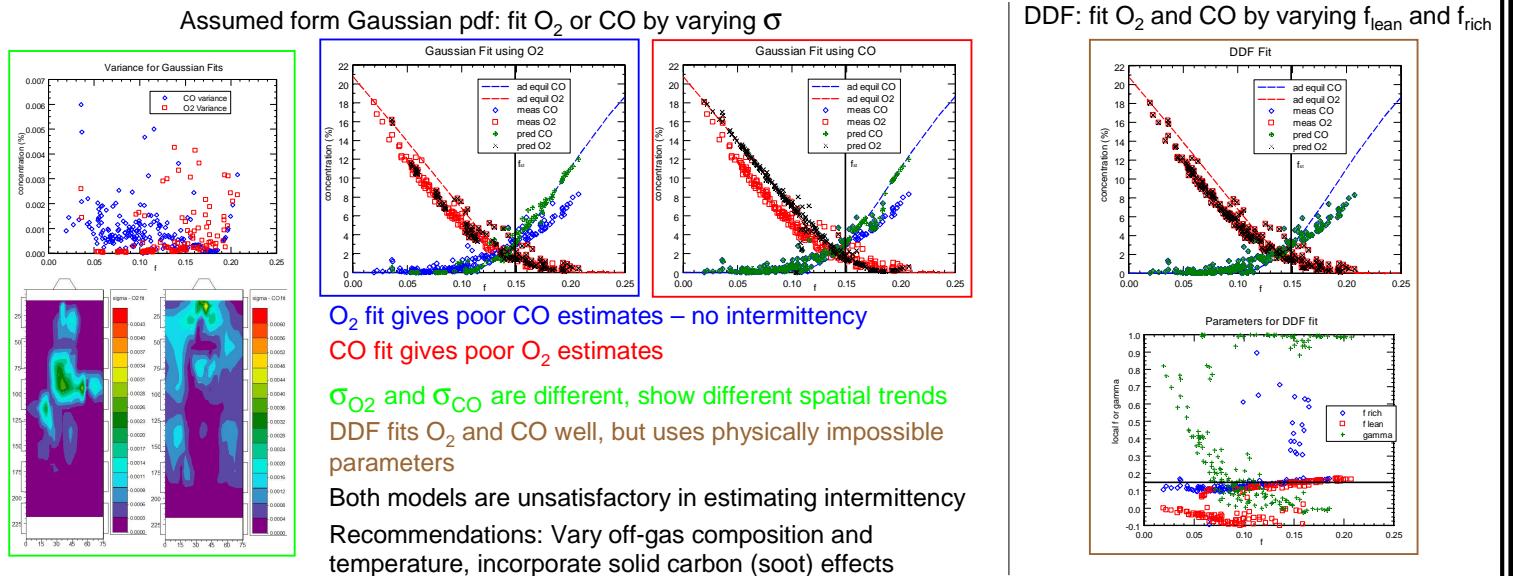


How to model this?

$$\bar{f} = \frac{m_f}{m_{tot}} = \frac{MW_c \cdot \sum x_i \cdot \xi_i}{MW_{tot} \cdot y_c}$$



Approach: Fit the experimental data by varying the model parameters



Acknowledgements: DONG Energy