CHE254-002 Industrial Lecture

Title: Mass Balance for Fossil Fuel Combustion and Air Quality Controls

Time: 10/15, Tuesday, 2-3 pm.

Place: Hardaway 207

Speaker:

Ned West, P.E.
Power Engineering Group, Technical Services
Southern Company Generation

Abstract:

The design of an SO$_2$ scrubber is used to present the concepts of a material mass balance. The mass balance includes the chemical reactions of fossil fuel combustion with excess air, SO$_2$ absorption using alkali reagent and the by-products of those reactions. The concepts of fuel heat content and boiler heat rate are explained and used to determine the mass combustion rate. Examples of real-world scrubber designs and performance are presented.

Professional Experience:

1. SOUTHERN COMPANY GENERATION, Birmingham, AL 2000-present. Engineering and Construction Services division serving our 45,000 MW generation fleet.
Alabama Power Co-op Pre-night

Title: Southern Company’s Co-op Program Overview

Time: 10/15, Tuesday, as time permits

Place: Hardaway 207

Speaker:

Jackie Blakley, PMP
Projects & Construction, Alabama
Southern Company Generation

Professional Experience:

1. SOUTHERN COMPANY GENERATION, Birmingham, AL 2006 – present. Engineering and Construction Services division serving our 45,000 MW generation fleet.