



# American Chemical Society Symposium

## Optical Diagnostics in Reacting Fuel Systems

March 25<sup>th</sup> – 29<sup>th</sup>, 2007, Chicago, IL

233<sup>rd</sup> American Chemical Society (ACS) National Meeting

Sponsored by the ACS Fuel Chemistry Division

**\* Preprints due on-line by November 17, 2006 \***

---

### Call for Papers

The symposium will focus on optical diagnostics used to monitor chemical reacting processes within energy conversion and/or fuel preparation devices or systems. This includes devices ranging from the classical internal combustion engine and advanced engines such as Homogeneous Charge Compression Ignition (HCCI) engines to devices with surface chemistry such as fuel cells and catalytic combustion. Papers should address new research or novel approaches where the application of an optical technique has provided new information or viewpoints on system chemistry. Topics include, but are not limited to:

- ❖ Measurements of ignition, reaction, and/or important process variables (for instance temperature or species concentrations) using non-intrusive optical methods
- ❖ Optically based measurements of in-situ chemical processes within a fuel cell
- ❖ Measurements (optically based) of catalytic processes for either energy release or pollutant cleanup
- ❖ Optical monitoring of fuel preparation processes ranging from fuel reforming to fuel refining

---

#### On-line Submissions:

On-line submission of both an abstract and a preprint are required on-line at the ACS OASYS website: <http://oasys.acs.org/oasys.htm>

Instructions and the preprint template are available at ACS Fuel Chemistry Division website: <http://www.anl.gov/PCS/acsfuel/preprintinfo.html>

In addition, please contact one of the co-chairs for inquiries and submissions:

---

#### Terry Parker

Engineering Division  
Colorado School of Mines  
tparker@mines.edu

#### Robert Walker

Department of Chemistry and Biochemistry  
University of Maryland - College Park  
rawalker@umd.edu