



Call for Abstracts



4th Annual Dayton Engineering Sciences Symposium October 27, 2008

Abstract Deadline: September 26, 2008

Abstract submission is now open for the 4th Annual Dayton Engineering Sciences Symposium (DESS) at Wright State University. Sponsored by the Dayton Section of ASME, the symposium is designed to facilitate communication between members of the regional technical community, as well as to provide a forum for students, both undergraduate and graduate, and researchers/practitioners to present their work. The symposium program will include several parallel sessions in the morning and afternoon, a luncheon, an industry exhibition, and a Keynote Address. Presentations are limited to 20 minutes, including time for questions. **No written paper is required.** The Dayton Section of ASME will confer "Best Presentation" awards at the annual Section Awards Banquet in late Spring, 2009.

The theme this year will be "**Energy**", and we've arranged for Mr. William (Bill) Harrison of AFRL's Propulsion Directorate to deliver the keynote speech. Mr. Harrison is currently the Propulsion Directorate's Technical Advisor for Fuels and Energy, and he was recently detailed as Senior Advisor to the OSD's Assured Fuels Initiative, which has positioned the USAF as a leader in certifying aircraft to use synthetic fuel blends.

Abstract Submission: Abstracts are solicited in all areas of engineering science. Specific topic areas are expected to include: Applied Engineering; Biomechanics; Computer Engineering; Controls Science; Design & Optimization; Electronics & Sensors; Engineering Education; Fluid Mechanics; Industrial & Human Factors; Materials & Processing; Nanotechnology; Power, Propulsion, & Energy Systems; Structures & Solid Mechanics; Thermal Sciences; Engineering Innovation; and Undergraduate Design Projects.

Abstracts are limited to 150 words, & must be submitted online through the symposium web site: <http://www.cs.wright.edu/~asme/DESS.htm>

Registration: All symposium registrations must be processed online through the conference website. Registration rates are as follows:

- General Registration: \$100
- ASME Member Registration: \$75
- General Student Registration: \$25
- ASME Student Member Registration: Free
- Student Presenter Registration: Free

Registration fee includes admission to all technical sessions, conference program and booklet of abstracts, continental breakfast, all day coffee and refreshments, and choice of box lunches.



$$E_k = \int \mathbf{F} \cdot d\mathbf{x} = \int \mathbf{v} \cdot d\mathbf{p} = \frac{1}{2}mv^2$$

$$E_{p.e} = \frac{1}{4\pi\epsilon_0} \frac{Q_1Q_2}{r}$$

$$E_p = - \int \mathbf{F} \cdot d\mathbf{s}$$

$$E = mc^2$$

$$\Delta q = \int C_v dT$$

$$\mathbf{S} = \frac{1}{\mu} \mathbf{E} \times \mathbf{B}$$

$$dE = TdS - PdV$$