GSFC · 2015

TFAWS 2015: Student Poster Session

This year's 26th Thermal and Fluids Analysis Workshop will take place on **August 3-7, 2015** in **Washington D.C.,** hosted by NASA Goddard Space Flight Center. This free conference will include a judged student poster session open to any undergraduate or graduate students.

If you would like to show a poster at the student poster session, please send an email to gsfc-h@mail.nasa.gov by **May 22**, with your name, preliminary title of the poster, and a brief description of the work (2-4 sentences, or longer if preferred). All participants must also register on the TFAWS website.

For more information, please visit our website **https://tfaws.nasa.gov**.

New to TFAWS? Background information here:
TFAWS is a NASA-hosted conference, held at a different NASA Center each year. This is the first time TFAWS has been in the National Capitol region since 2006. This conference focuses on thermal and fluids analysis, testing, and hardware; offerings include paper sessions, as well as hands-on thermal software training, useful short courses on thermal-related topics, panel sessions with experienced senior leaders, as well as inspiring keynote speakers. As a government-hosted conference, attendance is **completely free** and **open to the public**; international participants are also welcome. This is a great opportunity for students and young professions to network with and learn from professions within NASA and the aerospace industry.

Examples of research topics (or class projects) that would be an excellent fit for this conference:

- thermal aspects of electronics design or packaging
- thermal aspects of robotics
- phase change materials
- thermal aspects of aerospace-related combustion or propulsion or batteries
- heat transfer methods
- thermal aspects of fluid dynamics, vehicle body heating, launch or atmospheric reentry heating/boundary layer studies
- thermal aspects of spacecraft, spacesuits, rover, launch vehicle design or analysis or test, etc

Examples of past topics:

- CFD analysis for thermal control system of plant habitat sent to ISS
- Cryogenic cooling system for launch vehicle engines
- CFD simulation of water droplet impingements for aircraft icing analysis
- Spacesuit cooling, evaporative membrane design
- Thermal design for balloon experiments, satellites, Mars rover
- Loop heat pipe systems
- Space Shuttle reentry boundary layer transition experiment