



Call for Papers

Thermal & Fluids Analysis Workshop (TFAWS) 2007

September 10 -14, 2007

Co-Hosted By: Corporate College, Warrensville, OH
NASA Glenn Research Center, Cleveland, OH

You are invited to submit papers for the Thermal & Fluids Analysis Workshop 2007 (TFAWS '07). This year's workshop will include short courses of general interest in thermal and fluids, discussions on special topics, hands-on training sessions in many thermal and fluid software packages, vendor demonstrations and paper sessions on the topics that cover **Thermal/Heat Transfer, Fluids/Applied Fluid Dynamics, Propulsion, and Interdisciplinary/CFD.**

Thermal/Heat Transfer topics include:

- Thermal control, design, analysis and test for both space and aeronautical applications
- Heat transfer and thermophysics, analytical and experimental approaches
- Conjugate heat transfer of radiation, convection and conduction
- Ground test of the thermal system, manufacturing processes and simulation

Fluids/Applied Fluid Dynamics topics include:

- Fluid systems control, design and test for both space and aeronautical applications
- Vibration and acoustics in the launch environment
- Multiphase flows, high-speed and chemically-reacting flows, fluid-structure interaction, verification, validation, and uncertainty quantification

Propulsion topics include:

- CFD developments and applications for propulsion
- Propulsion analysis tools
- Modeling/testing of propulsion elements, components or systems
- Design/development of propulsion systems/components and cryogenic, nuclear or other novel propulsion concepts
- Propulsion related to vehicle and spacecraft integration
- Analysis, testing, or novel design concepts for combustion devices

Interdisciplinary/CFD topics include:

- Concurrent design, analysis and optimization
- Multi-disciplinary analysis for thermal/fluid/structural interaction
- Automation of test correlation, analysis, and method development
- High-speed aero-heating including ablation and transpiration
- CFD analysis and methods; internal/external subsonic/supersonic/hypersonic flow analysis/test

Abstracts less than 200 words or extended abstracts should be submitted to paula.m.pal@nasa.gov by July 13th, 2007. Typically, 20 minutes will be allotted for each paper, and ten additional minutes for questions from the audience. Additional time may be requested. Papers and seminars will be published on CD-ROM and distributed at the conference. Instructions for electronic manuscript submission will accompany acceptance of abstract. It is the author's responsibility to ensure that presentation content is not restricted by law, contract or prohibited in any way from being presented at this conference. For details on TFAWS '07 go to tfaws.nasa.gov or contact [XiaoYen Wang](mailto:XiaoYen.Wang@nasa.gov) at 216-433-2333 or [James Yuko](mailto:James.Yuko@nasa.gov) at 216-433-5646.

Milestones TFAWS '07

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Abstracts due July 13	Acceptance notices out July 20	Papers due (electronic format) August 10	Last day for pre-registration September 4