

May 15, 2019

Dear Colleagues,

You are cordially invited to participate in the U.S. Department of Energy, National Energy Technology Laboratory's (NETL) 2019 Workshop on Multiphase Flow Science. This year's workshop will take place on Tuesday, August 6 through Thursday, August 8, 2019, in Morgantown, WV at the Morgantown Marriott at Waterfront Place.

This workshop brings together international leaders from industry, academia, and government laboratories working in multiphase flow sciences to discuss current research projects and future research and development needs. Topics can include gas-solid, liquid-solid, gas-liquid, and gas-solid-liquid multiphase flows. Industrial representatives are encouraged to attend and share their experiences and specific applications to help researchers better understand industry needs and priorities. Please reference <https://mfix.netl.doe.gov/workshops/> for proceedings from past workshops.

Tuesday, August 6 and Wednesday, August 7, 2019 will be dedicated to technical presentations. On Thursday, August 8, 2019, NETL researchers will provide demonstration and training sessions on the latest release of NETL's MFiX Software Suite and associated software toolsets.

The goal for the Workshop continues to be advancing the use of physics-based multiphase simulations and experiments to help overcome the technical barriers associated with the development of highly efficient, environmentally acceptable energy, environmental and industrial technologies and processes.

The conference will cover topics in:

- Fundamental research in multiphase flows
- Advancements in CFD model development for multiphase flows
- Application of multiphase CFD to industrial systems such as gasification, combustion, fossil fuel extraction and utilization, chemical processes, etc.
- Novel measurement techniques in multiphase flows
- Application of uncertainty quantification techniques in multiphase flow simulation
- Optimization and reduced order modeling of multiphase systems

Call for Presentations:

You are invited to submit a brief abstract for a 15-minute presentation to be provided during the technical sessions on August 6 and 7, 2019. Abstracts for Posters are welcomed as well. Please submit your abstract by June 15, 2019 to workshops@mfix.netl.doe.gov. The final agenda will follow by July 15, 2019. Due to the limited number of time slots available for presentations, the organizing committee may ask the presentation author(s) to provide a poster instead of a PowerPoint presentation.

The workshop will be **Open to the Public** and Foreign Nationals may attend the meeting. Only publicly available information will be presented.

Please visit our NETL Multiphase Flow Science Website for more information on the workshop and our research program at <https://mfix.netl.doe.gov>

Registration:

There is a Registration Fee of \$185.00, which covers continental breakfast and lunch each day as well as refreshments for morning and afternoon breaks. This fee will not be refunded after July 26, 2019. Please register for the workshop and make your hotel reservation at the link [here](#).

Hotel Information:

We have secured a room block at the Marriott Waterfront Hotel, Two Waterfront Place, Morgantown, WV 26501. The room rate for this meeting is \$97.00 per night, plus tax. Hotel details can be found [here](#).

Further information regarding the upcoming draft agenda, hotel, transportation, directions and registration are available on our NETL website [here](#).

For information regarding the program technical content and presentations, please contact:

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