

CoMFRE Annual Meeting - Posters

OCTOBER 28-29, 2019

IOWA STATE UNIVERSITY ALUMNI CENTER, AMES, IA

Poster #	First Author	Title
1	Awate	Fabrication of Portable Flow Cytometry Platform with Additive Manufacturing
2	Barkley	Go/rGO Wrapped Nanoscale Thermite Composites with Thermally Switchable Microwave Ignitability
3	Belekar	Can Predictive Computation Reduce the Cost of Prescription Drugs?
4	Bothell	High-Speed Phase-Contrast X-ray Imaging for Spray Flow Visualization
5	Burnett	Effects of Similar Momentum Ratios on a Coaxial Airblast Atomizer
6	Gangopadhyay	An Explainable Deep Learning Framework For Sequential Data in Combustion Systems
7	Heylman	Simulation Methods for Multiphase Flows
8	Johnson	Thinner Tissues Induce Leaflet Flutter in Bioprosthetic Heart Valves
9	Katamreddy	Multi-Step Crystallization of Sodium Sulfate Solution at Unprecedentedly Deep Supersaturation Enabled by Solution Electrostatic Levitator
10	Khanwale	Simulating Two-phase Flows Using Finite Elements on Fast Octree Based Meshes
3rd Place 11	Kolbakir	Experimental Investigations on Plasma-Based Anti-/De-Icing Systems for Aircraft Icing Mitigation
12	Li	Time-Averaged Spray Analysis Using X-Ray
13	LoCurto	Quantitative Measurements of Temperature for Detonation Fireballs
14	McNamara	Microfluidically Produced Graphene-Based Conductive Scaffoldings for Elucidation of Cell-to-Cell Communications of Neural N27 Cells for Creation of 3D Models for Brain Damage
1st Place 15	Muchowski-Rajanna	Immersogeometric fluid–structure interaction modeling and simulation of transcatheter aortic valve replacement
2nd Place 16	Nadeem	X-ray Imaging for Particle-Particle Mixing
17	Nagawkar	CFD Investigation of Autothermal Pyrolyzers
18	Niaraki Asli	Flexible and Printable Circuits; from Production to Inkjet Printing of Graphene
19	Peng	Implementation of pseudo-turbulence closures in an Eulerian-Eulerian two-fluid model for non-isothermal gas-solid flow
20	Pillers	X-Ray Visualization of Hydrate Formation Through Chemical Reaction
21	Rabeh	Simulations of Oscillating Droplet Experiment Aboard the International Space Station
22	Ray	Eulerian Modeling of Triboelectrification in Gas-Particle Flows
23	Saurabh	Residual based variational multi scale method for coupled space - time simulation of phase field equation
24	Sliefert	Influence of Muzzle Gasses on Atomized Blood Droplets from Gunshots
25	Tian	An Experimental Study on Aero-engine Icing Phenomenon Using Flow Visualization and Infrared Thermometry
26	Veerakumar	An Experimental Investigation on Icing Physics and Anti-/De-Icing of Power Transmission Lines
27	Zhang	Characterization of Spray Flows of An Air-blast Fuel Injector Using ISU High-Pressure Spray Test Facility
28	Zhu	Microwave Control of Solid Rocket Combustion: Where Does the Energy Go?