FEDSM PRE-RECORDED TECHNICAL SESSIONS

Paper Number	Author Last Name	Author First Name	Track	Submission Code	Paper Title
FEDSM2020-20006	Garrett	Brian	FEDSM - Fluid Mechanics (FMTC)	27081	Fluid Flow Characteristics of a Co-Flow Fluidic Slot Jet Thrust Augmentation Propulsion System
FEDSM2020-20007	Zhang	Sijun	FEDSM - Computational Fluid Dynamics (CFDTC)	27083	Numerical Simulation of Twin-Parachute Inflation Process for Aircraft Ejection Escape
FEDSM2020-20031	Luo	Haoxiang	FEDSM - Computational Fluid Dynamics (CFDTC)	27128	Comparison of a Reduced-Order Fsi Model With Full 3d Simulation of Aortic Valve
FEDSM2020-20033	Abdollahi Mofakham	Amir	FEDSM - Multiphase Flow (MFTC)	27121	Computational Modeling of Proppant Transport in Rock Fractures
FEDSM2020-20034	Abdollahi Mofakham	Amir	FEDSM - Multiphase Flow (MFTC)	27100	Improved Drw Model for Prediction of Deposition and Dispersion of Nano- and Micro-Particles in Turbulent Flows
FEDSM2020-20035	Tian	Lin	FEDSM - Multiphase Flow (MFTC)	27125	Computational Analysis of Fiber Dynamics in Human Nasal Cavity
FEDSM2020-20040	Pillers	Roy	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27145	Backlit Imaging of a Circular Plunging Jet With Floor Interactions
FEDSM2020-20042	Xu	Qihang	FEDSM - Computational Fluid Dynamics (CFDTC)	27149	Blood Flow Simulations of Particle Trapping in Models of Arterial Bifurcations
FEDSM2020-20044	Fernandez-Gutierrez	David	FEDSM - Fluid Mechanics (FMTC)	27120	Effect of Active and Passive Curvature on the Hydrodynamic Performance of Flapping Fins
FEDSM2020-20048	Lin	Zhenghao	FEDSM - Computational Fluid Dynamics (CFDTC)	27154	Cfd Evaluation of Blood Flow in an Improved Blalock-Taussing Shunt Using Patient Specific Geometries
FEDSM2020-20049	Zhang	Sijun	FEDSM - Multiphase Flow (MFTC)	27086	Bubbling Flow in a Multi-Jet Fluidized Bed
FEDSM2020-20052	Momin	Marzia	FEDSM - Computational Fluid Dynamics (CFDTC)	27152	Analysis of Blood Flow Patterns to Estimate Atherosclerosis Formation in the Left Carotid Artery by Cfd Simulation
FEDSM2020-20053	Altimemy	Muhannad	FEDSM - Computational Fluid Dynamics (CFDTC)	27158	Performance of Francis Turbine Operating at Excess Load Condition
FEDSM2020-20054	Altimemy	Muhannad	FEDSM - Computational Fluid Dynamics (CFDTC)	27159	Computational Study of Pump Turbine – Partial Load Operation
FEDSM2020-20055	Nguyen	Khacha	FEDSM - Computational Fluid Dynamics (CFDTC)	27163	Feasibility Study for Flow-Induced Vibration in Stud Pipe Using Computational Fluid Dynamics
FEDSM2020-20059	Furlan	John	FEDSM - Multiphase Flow (MFTC)	27157	Weargp: A Machine Learning Wear Prediction Framework for Slurry Pump Impellers and Casings
FEDSM2020-20063	xingli	zhong	FEDSM - Computational Fluid Dynamics (CFDTC)	27174	Application of Fmi in Metal Casting Press-Forming Process
FEDSM2020-20069	Ahmadi	Goodarz	FEDSM - Multiphase Flow (MFTC)	27184	Cfd Evaluation of Bend Angle Effects on Sand Particle Erosion in Multiphase Flows

Paper Number	Author Last Name	Author First Name	Track	Submission Code	Paper Title
FEDSM2020-20071	Khezzar	Lyes	FEDSM - Fluid Applications & Systems (FASTC)	27162	Improved Power for Wind Farm Savonius Rotors: Effect of the Rotor's Position
FEDSM2020-20073	Hashimoto	Shigehiro	FEDSM - Micro & Nano Fluid Dynamics (MNFDTC)	27079	Micro Machined Slit Between Ridge and Groove in Micro Fluid-Channel to Measure Floating Cell Deformability
FEDSM2020-20076	Luo	Haoxiang	FEDSM - Computational Fluid Dynamics (CFDTC)	27198	Fluid-Structure Interaction Modeling of Vocal Fold Vibration Enhanced by Machine Learning
FEDSM2020-20078	Loubimov	George	FEDSM - Fluid Applications & Systems (FASTC)	27199	Using Liquid Spray Formations to Improve Aerodynamic Performance of Airfoils
FEDSM2020-20079	Sedrez	Thiana	FEDSM - Multiphase Flow (MFTC)	27200	Sand Particle Concentration Distribution Inside Vertical Pipes: A Cfd and Experimental Analysis
FEDSM2020-20080	Rajkumar	Yeshwanth Raj	FEDSM - Multiphase Flow (MFTC)	27201	Investigation of Particle Size Effects on Solid Particle Erosion With Piv Measurements of Particle Velocities
FEDSM2020-20081	Hadi	Naseer	FEDSM - Fluid Applications & Systems (FASTC)	27202	Cfd Simulation and Design Improvement of Internal Rotating Flow of Turbomachine
FEDSM2020-20082	Abdollahi Mofakham	Amir	FEDSM - Multiphase Flow (MFTC)	27132	Computational Modeling of Oil Well Cementing and Gas Migration Process
FEDSM2020-20086	Vermunt	Erik	FEDSM - Fluid Applications & Systems (FASTC)	27208	Part Load Instability and Rotating Stall in a Multistage Low Specific Speed Pump
FEDSM2020-20087	Epple	Philipp	FEDSM - Fluid Applications & Systems (FASTC)	27210	Numerical Performance Predictions of Artificial Intelligence-Driven Centrifugal Compressor Designs
FEDSM2020-20088	Zangeneh	Rozie	FEDSM - Computational Fluid Dynamics (CFDTC)	27211	Evaluation of Reattaching Shear-Layer in Compressible Turbulent Flows; a Large Eddy Simulation Approach
FEDSM2020-20089	Park	Joel	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27188	Theory of Uncertainty Analysis With Application to Naval Hydrodynamics
FEDSM2020-20090	Kolla	Srinivas Swaroop	FEDSM - Multiphase Flow (MFTC)	27214	Variation of Zero Net Liquid Holdup in Gas-Liquid Cylindrical Cyclone Separator in Normal Operational Conditions
FEDSM2020-20092	Zhou	Rui	FEDSM - Computational Fluid Dynamics (CFDTC)	27219	Simulation on Flow Pattern Transition With Liquid Nitrogen and Its Vapor Using a Droplet Entrainment Model
FEDSM2020-20093	Li	Wei	FEDSM - Computational Fluid Dynamics (CFDTC)	27220	A Comparative Numerical Study on Two-Phase Boiling Fluid Flow and Heat Transfer in the Microchannel Heat Sink With Different Manifold Arrangements
FEDSM2020-20094	Li	Wei	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27223	Visualization of R410a Flowing in Copper and Stainless Steel Dimpled Tubes Enhanced by Petal-Shaped Patterns Under Evaporation Conditions
FEDSM2020-20095	Mahmoud	Seif	FEDSM - Fluid Applications & Systems (FASTC)	27077	Comparison of Pathogens Dispersion in an Aircraft Cabin Using Gas Injection Source Versus a Coughing Manikin
FEDSM2020-20097	Mishra	Utkarsh A.	FEDSM - Fluid Mechanics (FMTC)	27228	Optimal Flow Strategy to Distribute Water Through Loop-Like Planar Networks
FEDSM2020-20098	Capone	Alessandro	FEDSM - Fluid Mechanics (FMTC)	27213	Hydrodynamics of the Wake of Contra-Rotating Propellers at Different Loading Conditions

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FEDSM2020-20099	Fu	Gen	FEDSM - Fluid Applications & Systems (FASTC)	27187	Investigation on the Modelling of Tire Rotating Using Computational Fluid Dynamics
FEDSM2020-20101	Pothos	Stamatios	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27190	Dense Particle Identification and Reconstruction (Dpir) for Volumetric Particle Tracking Velocimetry (Ptv)
FEDSM2020-20104	Degroot	Christopher T.	FEDSM - Fluid Mechanics (FMTC)	27236	Physical and Rheological Properties of Active Fluids Under Shear Stress- Suspensions of Synechocystis
FEDSM2020-20107	Xie	Chuan	FEDSM - Multiphase Flow (MFTC)	27175	Experimental Study on Operating Envelops of Nozzle to Mitigate Liquid Loading in Gas Wells
FEDSM2020-20108	Tomar	Yashvardhan	FEDSM - Fluid Applications & Systems (FASTC)	27195	Interactions of Two Uav Rotors at Low Reynolds Number
FEDSM2020-20110	A. Mofakham	Amir	FEDSM - Multiphase Flow (MFTC)	27153	A Dns Study of the Dispersion and Deposition of Nano- and Micro-Particles in a Turbulent Channel Flow
FEDSM2020-20113	Wang	Pengfei	FEDSM - Fluid Mechanics (FMTC)	27244	Hamiltonian Modeling and Energy Analysis of a Hydro Electric Generating Set in the Sudden Load Decreasing Transient
FEDSM2020-20116	Watanabe	Masahito	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27181	Experimental Analysis of Lagrangian Coherent Structures and Chaotic Mixing in Rayleigh-Benard Convection
FEDSM2020-20117	Ushioku	Takahiro	FEDSM - Multiphase Flow (MFTC)	27191	Numerical Study of Unsteady Behavior of Cloud Cavitation by Smoothed Particle Hydrodynamics
FEDSM2020-20120	Abou Hweij	Walid	FEDSM - Computational Fluid Dynamics (CFDTC)	27226	Cfd Simulation of Wall-Bounded Laminar Flow Through Screens. Part Ii: Mixing Characterization
FEDSM2020-20122	Fontes	Douglas	FEDSM - Computational Fluid Dynamics (CFDTC)	27251	An Evaluation of the Fluid Dynamics Character for an Elastically Supported Cylinder in Crossflow
FEDSM2020-20124	Das	Subhadip	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27254	An Assessment of Momentum Zones in Fully Developed Open Channel Flow
FEDSM2020-20125	De Groot	Christopher	FEDSM - Fluid Mechanics (FMTC)	27255	Motility Response to Hydrodynamic Stress During the Growth Cycle in Active Fuid Suspensions
FEDSM2020-20127	Rodriguez	Arturo	FEDSM - Fluid Applications & Systems (FASTC)	27247	Stochastic Analysis of Les Atmospheric Turbulence Solutions With Generative Machine Learning Models
FEDSM2020-20128	Miida	Hiroshi	FEDSM - Fluid Applications & Systems (FASTC)	27258	The Unsteady Behavior of Diffuser Stall in a Centrifugal Compressor With Vaneless Diffuser
FEDSM2020-20129	Cao	Shunxiang	FEDSM - Multiphase Flow (MFTC)	27189	Shock-Induced Bubble Collapse Near Solid Materials: Effect of Acoustic Impedance
FEDSM2020-20130	Tang	Weiyu	FEDSM - Micro & Nano Fluid Dynamics (MNFDTC)	27221	Evaluation of Frictional Pressure Drop Correlations During Flow Boiling of Refrigerants in Micro-Fin Tube
FEDSM2020-20131	Li	Wei	FEDSM - Fluid Mechanics (FMTC)	27222	Non-Equilibrium Thermal Fluctuation in Flow
FEDSM2020-20134	Li	Wei	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27259	Experimental Study of Evaporation Frictonal Pressure Drop in Hrizontal Enhanced Tube

Paper Number	Author Last Name	Author First Name	Track	Submission Code	Paper Title
FEDSM2020-20144	Hayashi	Kentaro	FEDSM - Fluid Applications & Systems (FASTC)	27193	Design Optimization of Splitter Blade Impeller in a Centrifugal Pump
FEDSM2020-20153	Yang	Jia-Ming	FEDSM - Fluid Applications & Systems (FASTC)	27274	Fluid Dynamics Investigation on the Body Structure Inside a Sleeve Regulating Valve
FEDSM2020-20156	Pothos	Stamatios	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27278	Performing Simultaneous Piv and Ldv Measurements; What Are Some of the Practical Considerations?
FEDSM2020-20161	Milanovic	Ivana	FEDSM - Fluid Mechanics (FMTC)	27285	Unified Assessment Approach for Courses With Simulation Component (And Professors in Hurry)
FEDSM2020-20165	Sharma	Amit	FEDSM - Computational Fluid Dynamics (CFDTC)	27134	Large Eddy Simulation of Flow Over a Hemispherical Obstacle Within a Cylindrical Tube
FEDSM2020-20166	Cassidy	Liam	FEDSM - Computational Fluid Dynamics (CFDTC)	27290	A Computational Study of a Biomass Cookstove with Forced Air Injection
FEDSM2020-20168	Li	Ang	FEDSM - Fluid Applications & Systems (FASTC)	27294	Noise Source Identification and Noise Directional Analysis of Bladeless Fans by Combined Cfd and Caa Method
FEDSM2020-20169	Sekaran	Aarthi	FEDSM - Fluid Mechanics (FMTC)	27297	Analysis of the Vortex Dynamics and Instability Mechanisms for a Lobed Nozzle Jet
FEDSM2020-20172	Banazadeh Neishabouri	Nafiseh	FEDSM - Computational Fluid Dynamics (CFDTC)	27291	Assessment of Computational Fluid Dynamics for Predicting Possible Cavitation and Choked Flow Inside Excess Flow Valves
FEDSM2020-20177	Wang	Yijie	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27310	Measurements of Morphology and Locomotion of Caenorhabditis Elegans With Digital Holographic Microscopy
FEDSM2020-20184	Tay	Wee Beng	FEDSM - Computational Fluid Dynamics (CFDTC)	27090	Investigation of Applying Physics Informed Neural Networks (Pinn) and Variants on 2d Aerodynamics Problems
FEDSM2020-20197	Boughazi	N	FEDSM - Fluid Mechanics (FMTC)	27322	A Simple Method for the Design of Supersonic Nozzles of Arbitrary Cross-Section Shape
FEDSM2020-20208	Tilcher	David Konstantin	FEDSM - Fluid Applications & Systems (FASTC)	27267	Ball Passage and Impeller Types Don't Characterize the Functional Performance of a Sewage Pump
FEDSM2020-20212	Matbouli	Houssam	FEDSM - Computational Fluid Dynamics (CFDTC)	27324	Performance Assessment of a Naca-2412 Surrogate Model Using Non-Intrusive Polynomial Chaos Method
FEDSM2020-20213	Ranjan	Pritanshu	FEDSM - Fluid Mechanics (FMTC)	27337	Numerical Investigation of a Square Back Ahmed Body Equipped With a Single Cavity and Multi-Cavity
FEDSM2020-20216	Agrawal	Mayur	FEDSM - Fluid Mechanics (FMTC)	27165	Length Reduction of S-Shaped Annular Interconnecting Duct Between Two Compressor Stages
FEDSM2020-20220	Bamberger	Judith	FEDSM - Fluid Mechanics (FMTC)	27342	Attached Jet Velocity Profiles in Mixing Tanks
FEDSM2020-20224	Zi	Dan	FEDSM - Fluid Applications & Systems (FASTC)	27224	Les Study of the Reynolds Stress During the Formation of the Air-Core Vortex in Hydraulic Intakes
FEDSM2020-20226	Watine	Yann	FEDSM - Fluid Mechanics (FMTC)	27283	Characterization of Vortex Induced Vibrations of a Cantilevered Blunt Plate Immersed in an Uniform Water Flow by Tr-Piv and Laser Vibrometry Analysis

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FEDSM2020-20228	Coppo Leite	Victor	FEDSM - Computational Fluid Dynamics (CFDTC)	27248	The Effect of Varying Viscosity in Turbulent Channel Flow
FEDSM2020-20230	Huang	Yiting	FEDSM - Fluid Applications & Systems (FASTC)	27203	Performance Evaluation for Sco2 Compressor With Loss Models Consideration
FEDSM2020-20236	Ben Rajeb	Faraj	FEDSM - Multiphase Flow (MFTC)	27347	Experimental Comparison of Newtonian and Non-Newtonian Multiphase Flow in Horizontal Pipes
FEDSM2020-20237	Song	Yixuan	FEDSM - Multiphase Flow (MFTC)	27293	Disruption Behavior of Aggregates in a Rotating/oscillating Cylindrical Tank and Implications for Particle Transport in the Ocean
FEDSM2020-20241	Romagnuolo	Luca	FEDSM - Computational Fluid Dynamics (CFDTC)	27349	Evaporative Emissions From Automotive Gasoline Fuel Tank Refueling: Experimental Activity and Numerical Simulation
FEDSM2020-20244	Galvez	Robert	FEDSM - Computational Fluid Dynamics (CFDTC)	27363	Using Computational Fluid Dynamics to Analyze Convection in Pin-to-Plane Plasma Discharge
FEDSM2020-20245	Wulff	Sebastian	FEDSM - Fluid Applications & Systems (FASTC)	27350	Guidelines for Long-Term Operation of High Performance Submersible Motor Pumps in Mine Dewatering
FEDSM2020-20248	Strauch	Carsten	FEDSM - Fluid Mechanics (FMTC)	27232	Experimental Hydraulic and Mechanic Characterization of a Double-Flow Implantable Blood Pump
FEDSM2020-20251	Martins Rocha	Douglas	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27178	A Comparison of the Flow Structure in a Normal Triangular Tube Array Obtained Based on the Sfv Technique and on Cfd Analyses
FEDSM2020-20252	Shepard	Thomas	FEDSM - Fluid Mechanics (FMTC)	27372	Impact of Print Parameters on Pressure Drop in Turbulent Flow Through 3-D Printed Pipes
FEDSM2020-20253	Epple	Philipp	FEDSM - Fluid Applications & Systems (FASTC)	27365	Paramatrisation of the Pressure and the Momentum Integral for Inclined Sluicegates Flows
FEDSM2020-20254	Kotteda	V M Krushnarao	FEDSM - Fluid Mechanics (FMTC)	27102	Parameter Sensitivity and Statistical Correlation Found in Atmospheric Turbulence Studies
FEDSM2020-20255	Wang	Qiuchen	FEDSM - Fluid Applications & Systems (FASTC)	27314	Evaluation of Erosion Equations in Oil and Water Submerged Impinging Jets
FEDSM2020-20257	Kumahor	Sedem	FEDSM - Fluid Mechanics (FMTC)	27306	The Effects of Upstream Wall Roughness on Separated and Reattached Flows Over a Forward-Facing Step
FEDSM2020-20258	Kumahor	Sedem	FEDSM - Fluid Mechanics (FMTC)	27309	The Effects of Upstream Wall Roughness on the Spatio-Temporal Characteristics of Flow Separations Induced by a Forward-Facing Step
FEDSM2020-20261	Epple	Philipp	FEDSM - Fluid Mechanics (FMTC)	27375	On How the Generation of Lift Can Be Explained in a Closed Form Based on the Fundamental Conservation Equations
FEDSM2020-20263	Chalmers	Heath	FEDSM - Fluid Mechanics (FMTC)	27378	Effects of Streamwise Aspect Ratio on Turbulent Flows Over Forward-Backward Facing Steps
FEDSM2020-20264	Darihaki	Farzin	FEDSM - Computational Fluid Dynamics (CFDTC)	27376	A Combined Cfd-Mechanistic Approach for Predicting Solid Particle Erosion in Annular Flow in Pipe Fittings and Elbows
FEDSM2020-20268	Deniz	Sabri	FEDSM - Fluid Applications & Systems (FASTC)	27369	Investigation of the Flow Instabilities of Low Specific Speed Pump-Turbines Part 1: Experimental and Numerical Analysis

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FEDSM2020-20275	Deniz	Sabri	FEDSM - Fluid Applications & Systems (FASTC)	27385	Investigation of the Flow Instabilities of Low Specific Speed Pump-Turbines Part 2: Flow Control With Fluid Injection
FEDSM2020-20279	Kim	Dohwan	FEDSM - Multiphase Flow (MFTC)	27388	Two-Phase Wakes in Adiabatic Liquid-Gas Flow Around a Cylinder
FEDSM2020-20282	Deniz	Sabri	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27390	Visualization of the Flow in the Vaneless Space of a Pump-Turbine in Turbine Operating Mode
FEDSM2020-20284	Khan	Tariq	FEDSM - Computational Fluid Dynamics (CFDTC)	27391	Comparative Analysis of the Thermal-Hydraulic Performance Evaluation Procedures for Shell & Tube Type Heat Exchangers
FEDSM2020-20290	Deniz	Sabri	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27399	Visualisation of the Flow on an Oscillating Rectangular Profile With Leading- and Trailing Edge Vortices
FEDSM2020-20291	Rodrigues	Frederico	FEDSM - Fluid Mechanics (FMTC)	27393	Dielectric Barrier Discharge Plasma Actuators for Active Flow Control, Ice Formation Detection and Ice Accumulation Prevention
FEDSM2020-20292	Rodrigues	Frederico	FEDSM - Fluid Applications & Systems (FASTC)	27404	Novel Propulsion System for Vtol Aircrafts Based on Cycloidal Rotors Coupled With Wings
FEDSM2020-20293	Rahman	Mustafa	FEDSM - Multiphase Flow (MFTC)	27343	Study of Particle Concentration Variation for Inflow Profiles in High Reynolds Number Turbulent Boundary Layer
FEDSM2020-20297	Bagheri Sadeghi	Nojan	FEDSM - Computational Fluid Dynamics (CFDTC)	27401	Order of Accuracy and Sensitivity to Freestream Conditions of a Modified K-ω Model for High-Order Finite Element Methods
FEDSM2020-20300	Bagheri Sadeghi	Nojan	FEDSM - Computational Fluid Dynamics (CFDTC)	27409	Wake Comparison of Open and Ducted Wind Turbines Using Actuator Disc Simulations
FEDSM2020-20301	Waldrop	Michael	FEDSM - Multiphase Flow (MFTC)	27362	A Correction to the Barotropic Cavitation Model for Choked, Converging-Diverging Nozzle Flows
FEDSM2020-20302	Wang	Qiuchen	FEDSM - Computational Fluid Dynamics (CFDTC)	27295	Large Eddy Simulation of Slurry Erosion in Impingement Jets
FEDSM2020-20303	Nedyalkov	Ivaylo	FEDSM - Fluid Mechanics (FMTC)	27400	The Fluids Rap – It's All About Flow
FEDSM2020-20305	Parvez	Mohammad Salman	FEDSM - Micro & Nano Fluid Dynamics (MNFDTC)	27410	Micro Flow Direction Analysis Using Gold Sputtered Planar V-Shaped Electrode Pattern
FEDSM2020-20307	rubby	md fazlay	FEDSM - Micro & Nano Fluid Dynamics (MNFDTC)	27186	Experimental and Numerical Analysis of Fluid Flow Through a Micromixer With the Presence of Electric Field
FEDSM2020-20310	Lozowy	Richard	FEDSM - Fluid Applications & Systems (FASTC)	27171	On the Potential for Low-Frequency Control Valve Vibrations Being Caused by Upstream Oscillating Dean Vortices
FEDSM2020-20316	Pan	Yu	FEDSM - Computational Fluid Dynamics (CFDTC)	27418	Effect of Formation Pattern on Schooling Energetics in Fish-Like Swimming
FEDSM2020-20317	Elbing	Brian	FEDSM - Fluid Mechanics (FMTC)	27416	Comparison of Turbulent Boundary Layer Profiles Modified With Injection or Uniform Concentration of Drag-Reducing Polymer Solution
FEDSM2020-20318	Karimi	Soroor	FEDSM - Multiphase Flow (MFTC)	27183	Effects of Pipe Diameter and Stokes Number on Erosion in Elbows: Cfd and Experimental Investigations

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FEDSM2020-20319	Ferraro	Mark	FEDSM - Multiphase Flow (MFTC)	27420	A Discrete Element Approach to Rectified Bubble Motion
FEDSM2020-20322	Aloui	Fethi	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27421	Experimental and Numerical Investigations of Unsteady Flows Downstream Confined Rectangular Obstacles
FEDSM2020-20326	Gaied	Lamia	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27426	Experimental Investigations of the Surface Groove Effect in Taylor-Couette-Poiseuille Flow
FEDSM2020-20329	Mehrez	Insaf	FEDSM - Fluid Mechanics (FMTC)	27422	Lattice Boltzmann Method Based on Large Eddy Simulation (Les) Used to Investigate the Unsteady Turbulent Flow on Series of Cavities
FEDSM2020-20332	Zhang	Haipeng	FEDSM - Micro & Nano Fluid Dynamics (MNFDTC)	27241	Rheological Measurement of the Gelation Temperature of Thermoresponsive Hydrogels: A Tutorial Using Pluronic F127
FEDSM2020-20336	Huynh	B. Phuoc	FEDSM - Computational Fluid Dynamics (CFDTC)	27428	A Les Study of Ventilation Flow Through a 3-D Room Fitted With Solar Chimney
FEDSM2020-20337	Kolla	Srinivas Swaroop	FEDSM - Multiphase Flow (MFTC)	27435	Testing and Modeling of a Triangular Elbow in Comparison to a Circular Elbow
FEDSM2020-20338	Jana Maiti	Chandrima	FEDSM - Fluid Applications & Systems (FASTC)	27126	Rans-Vof Simulations of Density-Stratified Air-Water Flow in a 2d Channel
FEDSM2020-20341	Kolla	Srinivas Swaroop	FEDSM - Multiphase Flow (MFTC)	27436	A Unified Mechanistic Model for Particle Transport in Horizontal and Inclined Pipelines and Wellbores
FEDSM2020-20344	Ito	Sasuga	FEDSM - Computational Fluid Dynamics (CFDTC)	27437	Adaptive Simulation Based on Urans and Ensemble Kalman Filter for Resolving Turbulent Flow on Les
FEDSM2020-20345	Urcia	Jose	FEDSM - Computational Fluid Dynamics (CFDTC)	27069	A Computational Fluid Dynamic Study of a Momentum and Energy Method on Rough Surfaces
FEDSM2020-20348	Jung	Kuk Jin	FEDSM - Computational Fluid Dynamics (CFDTC)	27205	Optimal Design of Thermally Stressed Turbocharger Blade Using Response Surface Method
FEDSM2020-20350	Lee	Jin-Woo	FEDSM - Computational Fluid Dynamics (CFDTC)	27173	Numerical Analysis on Performance of Spiral Two-Fluid Atomizer Using Dpm Method
FEDSM2020-20356	Zhang	Haipeng	FEDSM - Micro & Nano Fluid Dynamics (MNFDTC)	27446	Fabrication of a Microchannel Device With a Three-Dimensional Pore Network Using a Sacrificial Sugar Template
FEDSM2020-20360	Bohl	Douglas	FEDSM - Fluid Mechanics (FMTC)	27412	Wake Properties of an Oscillating Airfoil Undergoing Small Amplitude Asymmetric Oscillation
FEDSM2020-20363	Wu	Puyuan	FEDSM - Fluid Applications & Systems (FASTC)	27448	Characterization of Oil Droplets in the Lower Cavity of a Rotary Compressor
FEDSM2020-20364	Bluestein	Andrew	FEDSM - Multiphase Flow (MFTC)	27434	Effect of Neutrally Buoyant Particles on Horizontal Turbulent Flow Through a Tee-Junction
FEDSM2020-20369	Dong	Haibo	FEDSM - Fluid Mechanics (FMTC)	27282	Airflow Characterization Combined With 3d Reconstruction of Rabbit Vocal Cord Based on in Vivo Phonatory Experiments
FEDSM2020-20370	Fang	Jun	FEDSM - Computational Fluid Dynamics (CFDTC)	27364	Modeling the Effect of Spacer Grid and Mixing Vanes in Coupled Cfd Simulations of Small Modular Reactors

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FEDSM2020-20374	Chang	Yanni	FEDSM - Multiphase Flow (MFTC)	27367	A Numerical Study of Oblique Water Entry Problems
FEDSM2020-20378	Hortensius	Ruben	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27451	An Overview and Historical Perspective of Fluid Mechanics Diagnostics in Submerged Applications
FEDSM2020-20379	Manzanas	Carlos	FEDSM - Micro & Nano Fluid Dynamics (MNFDTC)	27253	Development of Ball-Enabled Miniaturized Valves for Sample Preparation and Microheaters for Pathogen Detection
FEDSM2020-20382	Zhu	Haiwen	FEDSM - Multiphase Flow (MFTC)	27373	A Numerical Study on Mesh Type, Size, and Near Wall Grid Thickness Effect to Performance and Erosion Simulations in an Electrical Submersible Pump (Esp)
FEDSM2020-20386	Wang	Junshi	FEDSM - Fluid Mechanics (FMTC)	27439	Effect of Head Posture on Airflow and Pressure Behavior of Human Upper Airway During Snoring
FEDSM2020-20387	Guo	Jia	FEDSM - Fluid Measurement & Instrumentation (FMITC)	27335	Implementation of Filters of Angles of Attack to Improve Numerical Stability of Dynamic Stall Model in Vertical Axis Wind Turbines
FEDSM2020-20390	Bamberger	Judith	FEDSM - Multiphase Flow (MFTC)	27460	Evaluating Transfer and Pumping of Slurries From Pulsed Jet Mixed Vessels
FEDSM2020-20391	Kumar	Vinod	FEDSM - Computational Fluid Dynamics (CFDTC)	27463	Parametric Optimization of a Dry Powder Inhaler
FEDSM2020-20394	Hammad	Khaled J.	FEDSM - Computational Fluid Dynamics (CFDTC)	27465	Influence of a Yield-Shear-Thinning Rheology on the Flow Behavior of Submerged Annular Jets
FEDSM2020-20396	Zanzi	Claudio	FEDSM - Multiphase Flow (MFTC)	27207	On the Boundary Condition for the Level Set Function in the Numerical Simulation of Moving Contact Lines
FEDSM2020-20399	Chang	Yanni	FEDSM - Multiphase Flow (MFTC)	27419	A Comparative Study of Interpolation Schemes in Overset Meshes for the Plic-Vof Method in Multiphase Flows
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