

Conference Agenda

Session Overview

Date: Monday, 22/Jul/2019

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| 9:30am - 10:45am | SC1: Short Courses 1 Location: Wolfson Room, 2nd Floor 9:30am - 10:45am On the structure of the distribution functions in kinetic schemes for continuum flows Wang, Lian-Ping SUSTech, China, People's Republic of |
| 9:30am - 12:00pm | On-site registration Location: PG01 |
| 10:45am - 11:00am | Coffee Break Location: PG01 |
| 11:00am - 12:15pm | SC2: Short Courses 2 Location: Wolfson Room, 2nd Floor 11:00am - 12:15pm Orthogonalization in lattice Boltzmann models with multiple relaxation rates Geier, Martin TU Braunschweig, Germany |
| 12:15pm - 1:45pm | Lunch Location: PG01 |
| 1:45pm - 3:00pm | SC3: Short Courses 3 Location: Wolfson Room, 2nd Floor 1:45pm - 3:00pm Lattice Boltzmann algorithms using vector distribution functions - theory and applications Dellar, Paul John University of Oxford, United Kingdom |
| 2:00pm - 6:00pm | Poster Location: PG01 Modelling double emulsion formation in planar flow-focusing microchannels Wang, Ningning¹; Semprebom, Ciro²; Liu, Haihu³; Zhang, Chuhua³; Kusumaatmaja, Halim¹ 1: Department of Physics, Durham University, South Road, Durham DH1 3LE, UK; 2: Smart Materials and Surfaces Laboratory, Department of Mathematics, Physics and Electrical Engineering, Ellison Place, Northumbria University, Newcastle upon Tyne, NE1 8ST, UK; 3: School of Energy and Power Engineering, Xi'an Jiaotong University, Xi'an 710049, China 3D flow through flexible vessels using a hybrid lattice Boltzmann-finite element method Wang, Haifeng¹; Krüger, Timm²; Varnik, Fathollah¹ 1: The Interdisciplinary Centre for Advanced Materials Simulation (ICAMS), RUB, Germany; 2: School of Engineering, University of Edinburgh, Scotland, UK Differential diffusivity effects on dissolution-driven density instability of reactive flow in porous media Lei, Timan; Luo, Kai H. University College London, United Kingdom |
| 3:00pm - 3:15pm | Coffee Break Location: PG01 |
| 3:15pm - 4:30pm | SC4: Short Courses 4 Location: Wolfson Room, 2nd Floor 3:15pm - 4:30pm Simulation of rarefied gas flows using half-range quadratures Ambrus, Victor E. West University of Timisoara, Romania |

4:30pm | **SC5: Short course 5: Short Course 5**

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Location: **Wolfson Room, 2nd Floor**

5:45pm

Gas-kinetic schemes for continuum and multiscale flows

Wang, Lian-Ping¹; Guo, Zhaoli²

1: SUSTech, China, People's Republic of; 2: Huazhong University of Science and Technology, China, People's Republic of

5:45pm | **Q&A for short courses: Questions and Discussions**

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Location: **PG01**

7:00pm

Date: Tuesday, 23/Jul/2019

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| 9:30am - 9:50am | Welcome Location: PG01 Chair: Baixin Chen , Heriot-Watt University Chair: Li-Shi Luo , CSRC |
| 9:30am - 1:00pm | On-site registration Location: PG01 |
| 9:50am - 11:10am | Phase-Field othe Other Methods for Complex Fluids Location: Wolfson Room, 2nd Floor Chair: Baixin Chen , Heriot-Watt University 9:50am - 10:30am Thermodynamically consistent phase-field modelling for two-phase flows and moving contact line problems and their energy law preserving computational methods Lin, Ping University of Dundee, United Kingdom 10:30am - 10:50am A Comparative Study of Phase-Field LBM and ALE interface-conforming FEM for Interface Dynamics Zhang, Changjuan; Fakhari, Abbas; Li, Jie; Luo, Li-Shi; Qian, Tiezheng CSRC, China, People's Republic of 10:50am - 11:10am Phase-field-based lattice Boltzmann model for immiscible incompressible N-phase flows Yuan, Xiaolei^{1,2}; Liang, Hong³; Chai, Zhenhua^{1,2}; Shi, Baochang^{1,2} 1: School of Mathematics and Statistics, Huazhong University of Science and Technology, Wuhan, 430074, China; 2: Hubei Key Laboratory of Engineering Modeling and Scientific Computing, Huazhong University of Science and Technology, Wuhan, 430074, China; 3: Department of Physics, Hangzhou Dianzi University, Hangzhou, 310018, China |
| 11:10am - 11:30am | Coffee Break Location: PG01 |
| 11:30am - 1:10pm | Method and Analysis I Location: PG01 Chair: Paul John Dellar , University of Oxford 11:30am - 11:50am Studying the Settling Behaviour of Arbitrarily Shaped Particles with a Homogenised Lattice Boltzmann Approach Trunk, Robin^{1,2}; Nirschl, Hermann²; Krause, Mathias J.^{1,2,3} 1: Lattice Boltzmann Research Group (LBRG), KIT, Germany; 2: Institute for Mechanical Process Engineering and Mechanics (MVM), KIT, Germany; 3: Institut for Applied and Numerical Mathematics 2 (IANM2), KIT, Germany 11:50am - 12:10pm General third order Chapman-Enskog expansion of lattice Boltzmann schemes Dubois, François Univ. Paris Sud, Orsay, France 12:10pm - 12:30pm A new coupled HMC constitutive model with consideration of swelling and dissolution based on mixture coupling theory Ma, Yue; Chen, Xiaohui; Stewart, Doug; Yu, Hai-sui School of Civil Engineering, University of Leeds, UK 12:30pm - 12:50pm Reduced Order Statistical Emulator for Turbulent flows Gairola, Abhinav; Bindra, Hitesh Kansas State University, United States of America 12:50pm - 1:10pm Recasting Navier-Stokes Equations Dadzie, S Kokou; Lakshminarayana Reddy, M. H. Heriot-Watt University, United Kingdom |

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| 1:10pm - 3:00pm | Lunch Location: PG01 |
| 3:00pm - 4:40pm | Multiphase and Porous Media Flows etc. Location: PG01 Chair: Martin Geier , TU Braunschweig 3:00pm - 3:40pm Pore-scale modelling of gas flow in shale rocks - beyond lattice Boltzmann method Zhang, Yonghao University of Strathclyde, United Kingdom <hr/> 3:40pm - 4:00pm Mesoscopic simulation of droplet coalescence in fibrous porous media Wang, Fang; Schiller, Ulf D. Clemson University, United States of America <hr/> 4:00pm - 4:20pm Lattice Boltzmann Simulations of Kinetic Impacts of the Surface Acoustic Wave on a Drop Burnside, Stephen Burrell; Khajepour, Soroush; Chen, Baixin Heriot-Watt University, United Kingdom <hr/> 4:20pm - 4:40pm Microfluidic numerical diagnostics for the interpretation of lab-on-a-chip mineral precipitation experiments Mahrous, Mohamed^{1,3}; Poonosamy, Jenna²; Curti, Enzo^{1,3}; Churakov, Sergey^{1,3}; Prasianakis, Nikolaos¹ 1: Paul Scherrer Institut, Switzerland; 2: Jülich Research Center, Germany; 3: University of Bern, Switzerland |
| 4:40pm - 5:00pm | Coffee Break Location: PG01 |
| 5:00pm - 6:40pm | Algorithms and Implementations etc. Location: PG01 Chair: Christian Obrecht , INSA Lyon 5:00pm - 5:20pm Performance evaluation of implicit coupling between the immersed boundary and lattice Boltzmann methods on GPU Klinkovský, Jakub; Fučík, Radek Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague, Czech Republic <hr/> 5:20pm - 5:40pm A modified immersed boundary-lattice Boltzmann method for simulating incompressible fluid flow in 2D and 3D on GPU Eichler, Pavel; Fučík, Radek FNSPE, CTU in Prague, Czech Republic <hr/> 5:40pm - 6:00pm Direct numerical simulations of turbulent flows over periodic hill with lattice Boltzmann method on multi-GPU cluster Lin, Wei-Jie; Lin, Chao-An Department of Power Mechanical Engineering, National Tsing Hua University, Taiwan <hr/> 6:00pm - 6:20pm Numerical simulations of 3D wave transformation based on lattice Boltzmann method Liu, Guang-wei; Zhang, Qing-he; Zhang, Jin-feng; Liu, Run State Key Laboratory of Hydraulic Engineering Simulation and Safety, Tianjin University, Tianjin 300072, China <hr/> 6:20pm - 6:40pm Three-dimensional Lattice Boltzmann simulation of boiling using a non-orthogonal multiple-relaxation-time scheme Fei, Linlin¹; Luo, Kaihong² 1: Center for Combustion Energy, Key laboratory for Thermal Science and Power Engineering of Ministry of Education, Department of Thermal Engineering, Tsinghua University, Beijing 100084, China; 2: Department of Mechanical Engineering, University College London, Torrington Place, London WC1E 7JE, UK |
| 7:00pm - | Reception and Social at Marriott Courtyard Hotel Location: Marriott Courtyard Hotel |

9:00pm |

Date: Wednesday, 24/Jul/2019

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| 9:30am - 11:10am | <p>Kinetic Methods etc. Location: PG01 Chair: Paul John Dellar, University of Oxford</p> <p>9:30am - 10:10am On local kinetic models for fluid flows -- Boltzmann vs. BGK Babovsky, Hans Technical University of Ilmenau, Germany</p> <hr/> <p>10:10am - 10:30am Analysis of Knudsen layer phenomena using half-range quadratures Ambrus, Victor E.¹; Luo, Li-Shi² 1: West University of Timisoara, Romania; 2: Old Dominion University, USA</p> <hr/> <p>10:30am - 10:50am Lattice Boltzmann simulation of gas-liquid flow interacting with a moving geometry Luo, Tianpei^{1,2,3}; Xia, Jun¹; Liu, Yangwei⁴; Zhang, Jiaxian^{2,3}; Liu, Ruimin^{2,3}; Yang, Sifeng^{2,3}; Zhao, Hua¹ 1: Department of Mechanical and Aerospace Engineering & Institute of Energy Futures, Brunel University London, Uxbridge UB8 3PH, UK; 2: Beijing Institute of Aerospace Testing Technology, Beijing 100074, China; 3: Beijing Engineering Research Center of Aerospace Testing Technology and Equipment, Beijing 100074, China; 4: National Key Laboratory of Science and Technology on Aero-Engine Aero-Thermodynamics, School of Energy and Power Engineering, Beihang University, Beijing 100191, China</p> <hr/> <p>10:50am - 11:10am Chemical-Potential Multiphase Model with Superlarge Density Ratio Wen, Binghai Guangxi Normal University, Guilin, China</p> |
| 9:30am - 1:00pm | <p>On-site registration Location: PG01</p> |
| 11:10am - 11:30am | <p>Coffee Break Location: PG01</p> |
| 11:30am - 1:10pm | <p>Thermal and Compressible Flows etc. Location: PG01 Chair: Lian-Ping Wang, SUSTech</p> <p>11:30am - 11:50am Simulation of three-dimensional compressible turbulence and compressible heat transfer using discrete unified gas kinetic schemes Wang, Lian-Ping^{1,2}; Wen, Xin²; Chen, Tao^{1,3}; Guo, Zhaoli⁴ 1: Southern University of Science and Technology, China; 2: University of Delaware, USA; 3: Peking University, China; 4: Huazhong University of Science and Technology, China</p> <hr/> <p>11:50am - 12:10pm A Semi-Lagrange Gas Kinetic Scheme for Compressible Flows Li, Weidong; Zhao, Zhangyan Wuhan University of Technology, China, People's Republic of</p> <hr/> <p>12:10pm - 12:30pm Simulation of a laser melting additive manufacturing process by using the lattice Boltzmann method Cheng, Ming; Li, Hongying; Lou, Jing Institute of High Performance Computing, Singapore</p> <hr/> <p>12:30pm - 12:50pm Adaptive relaxation times for aeroacoustic simulations. Marié, Simon¹; Gloerfelt, Xavier² 1: Conservatoire National des arts et métiers, France; 2: Ecole Nationale Supérieure d'arts et Métiers, France</p> <hr/> <p>12:50pm - 1:10pm Effective Thermal Conductivity of Hydrate-Free Permafrost Sediments: Experimental Study and</p> |

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| | <p>Development of a Predictive Numerical Model Vasheghani Farahani, Mehrdad; Hassanpouryouzband, Aliakbar; Yang, Jinhai; Tohidi, Bahman Heriot-Watt University, United Kingdom</p> |
| 1:10pm - 3:00pm | <p>Lunch Location: PG01</p> |
| 3:00pm - 4:40pm | <p>Multiphase Flows: Modelling and Simulation Location: PG01 Chair: Manfred Krafczyk, TU Braunschweig</p> <p>3:00pm - 3:40pm Modelling ternary fluid flows with free energy lattice Boltzmann method Kusumaatmaja, Halim Durham University, United Kingdom</p> <p>3:40pm - 4:00pm A pseudopotential Lattice Boltzmann model of liquid-liquid dissolution Wei, Wei; Khajepour, Soroush; Pasieczynski, Kimal; Chen, Baixin Heriot-Watt University, United Kingdom</p> <p>4:00pm - 4:20pm Wetting boundaries for high density ratio ternary Lattice Boltzmann Bala, Neeru¹; Pepona, Marianna²; Karlin, Ilya³; Kusumaatmaja, Halim²; Semprebon, Ciro¹ 1: Department of Mathematics, Physics and Electrical Engineering, Northumbria University, Newcastle upon Tyne, UK, NE1 8ST; 2: Department of Physics, Durham University, Durham, UK, DH1 3LE; 3: Department of Mechanical and Process Engineering, ETH Zurich, CH-8092 Zurich, Switzerland</p> <p>4:20pm - 4:40pm Collective self-propulsion of multiple flapping plates in viscous fluids Huang, Haibo; Zhang, Chengyao; Lu, Xi-Yun University of Science and Technology of China, China, People's Republic of</p> |
| 4:40pm - 5:00pm | <p>Coffee Break Location: PG01</p> |
| 5:00pm - 6:40pm | <p>Algorithm and Applications Location: PG01 Chair: Martin Geier, TU Braunschweig</p> <p>5:00pm - 5:20pm LAMBRex: Configurable lattice Boltzmann with adaptive meshes Brown, Oliver T; Nash, Rupert W EPCC, University of Edinburgh, United Kingdom</p> <p>5:20pm - 5:40pm Investigation of Pseudopotential Forces and Their Effects on Multiphase Flow Simulations Pasieczynski, Kimal; Chen, Baixin Heriot-Watt University, United Kingdom</p> <p>5:40pm - 6:00pm Acoustical analysis of fluid structure interaction using the Cumulant lattice Boltzmann method Gorakifard, Mohsen¹; Cuesta, Idefonso¹; Salueña, Clara¹; Kian far, Ehsan² 1: Rovira i Virgili University, Spain; 2: The University of Manchester, United Kingdom</p> <p>6:00pm - 6:20pm Meshless approach for lattice Boltzmann methods on irregular point clouds Pribe, Ivan; Fattahi, Ehsan; Becker, Thomas Technical University of Munich, Germany</p> <p>6:20pm - 6:40pm Central moment LBM accuracy of the advection-diffusion equation in 1D Straka, Robert Czech Technical University - Faculty of Nuclear Sciences and Physical Engineering, Czech Republic</p> |

Date: Thursday, 25/Jul/2019

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| 9:30am - 11:10am | <p>LBM and Complex Flows Location: PG01 Chair: Li-Shi Luo, CSRC</p> <p>9:30am - 10:10am Lattice Boltzmann simulations of liquid crystals: blue phases and active gels Marenduzzo, Davide University of Edinburgh, UK</p> <hr/> <p>10:10am - 10:30am Lattice Boltzmann model for miscible mixtures: application to the viscous fingering instability Vienne, Lucien; Marié, Simon; Grasso, Francesco Cnam, France</p> <hr/> <p>10:30am - 10:50am Rheology of dense suspensions in shear flow via simulations with an immersed boundary lattice Boltzmann method Srinivasan, Sudharsan^{1,2}; Van den Akker, Harry^{1,2,3}; Shardt, Orest^{1,2} 1: Synthesis and Solid State Pharmaceutical Centre (SSPC), University of Limerick, Limerick V94T9PX, Ireland; 2: Bernal Institute, University of Limerick, Limerick, V94T9PX, Ireland; 3: Transport Phenomena Lab, Department of Chemical Engineering, Delft University of Technology, Van der Maasweg 9, Delft, 2629 HZ, The Netherlands</p> <hr/> <p>10:50am - 11:10am Accurate particulate flow simulations with a coupled lattice Boltzmann - discrete element method Rettinger, Christoph¹; Rüde, Ulrich^{1,2} 1: Chair for System Simulation, Friedrich-Alexander-Universität Erlangen-Nürnberg, Cauerstraße 11, 91058 Erlangen, Germany; 2: CERFACS, 42 Avenue Gaspard Coriolis, 31057 Toulouse, France</p> |
| 9:30am - 1:10pm | <p>On-site registration Location: PG01</p> |
| 11:10am - 11:30am | <p>Coffee Break Location: PG01</p> |
| 11:30am - 1:10pm | <p>Method and Analysis II Location: PG01 Chair: François Dubois, Univ. Paris Sud, Orsay</p> <p>11:30am - 11:50am Implicit versus explicit LES: Taylor-Green vortex benchmark Geier, Martin; Lenz, Stephan; Schönherr, Martin TU Braunschweig, Germany</p> <hr/> <p>11:50am - 12:10pm Investigation of Different Lattice Boltzmann Fluid-Structure Interaction Approaches for Vortex-Induced Vibrations Haussmann, Marc; Raichle, Florian; Nirschl, Hermann; Krause, Mathias J. Karlsruhe Institute of Technology, Germany</p> <hr/> <p>12:10pm - 12:30pm A block triple-relaxation-time lattice Boltzmann model for nonlinear anisotropic convection-diffusion equations Zhao, Yong^{1,2}; Wu, Yao^{1,2}; Chai, Zhenhua^{1,2}; Shi, Baochang^{1,2} 1: School of Mathematics and Statistics, Huazhong University of Science and Technology, Wuhan 430074, China; 2: Hubei Key Laboratory of Engineering Modeling and Scientific Computing, Wuhan 430074, China</p> <hr/> <p>12:30pm - 12:50pm Fully coupled multiscale lattice Boltzmann-discrete element model for dense reactive particulate flows Maier, Marie-Luise¹; Patel, Ravi Ajitbhai²; Prasianakis, Nikolaos²; Churakov, Sergey²; Nirschl, Hermann¹; Krause, Mathias J.¹ 1: Karlsruhe Institute of Technology, Germany; 2: Paul Scherrer Institute, Switzerland</p> <hr/> <p>12:50pm - 1:10pm</p> |

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| | <p>Local Kinetic Computation of Skew-Symmetric Velocity Gradient Tensor using Double Distribution functions-based Lattice Boltzmann Schemes on Standard Lattices</p> <p>Hajabdollahi, Farzaneh¹; Premnath, Kannan¹; Adam, Saad² 1: Department of Mechanical Engineering, University of Colorado Denver, United States of America; 2: Department of Mechanical Engineering, University of Tobruk, Tobruk, Libya</p> |
| 1:10pm - 2:20pm | <p>Lunch Location: PG01</p> |
| 2:20pm - 4:00pm | <p>CFD and Bio Fluids Location: PG01 Chair: Baixin Chen, Heriot-Watt University</p> |
| | <p>2:20pm - 3:00pm</p> <p>Feeding the baby: a multiscale model of placental transport</p> <p>Jensen, Oliver¹; Erlich, Alexander²; Pearce, Philip³; Chernyavsky, Igor¹ 1: University of Manchester, United Kingdom; 2: Universite Grenoble Alpes, France; 3: MIT, USA</p> |
| | <p>3:00pm - 3:20pm</p> <p>Lattice Boltzmann-finite element based simulation of blood flow in aneurysms</p> <p>Wang, Haifeng¹; Krüger, Timm²; Varnik, Fathollah¹ 1: Interdisciplinary Center for Advanced Materials Simulation (ICAMS), Ruhr-Universität Bochum, Germany; 2: School of Engineering, University of Edinburgh, Scotland, UK</p> |
| | <p>3:20pm - 3:40pm</p> <p>Noise reduction of flow MRI measurements using a lattice Boltzmann based topology optimisation approach</p> <p>Klemens, Fabian; Thäter, Gudrun; Krause, Mathias Karlsruhe Institute of Technology, Germany</p> |
| | <p>3:40pm - 4:00pm</p> <p>Microvascular Sodium Transport Under Complex Endothelial Glycocalyx Structure: A Large-Scale Molecular Dynamics Simulation</p> <p>Jiang, Xizhuo; Ventikos, Yiannis; Luo, Kai H. University College London, United Kingdom</p> |
| 4:00pm - 4:20pm | <p>Coffee Break Location: PG01</p> |
| 4:20pm - 6:00pm | <p>ICMMES Awards etc. Location: PG01 Chair: Manfred Krafczyk, TU Braunschweig Chair: Li-Shi Luo, CSRC</p> |
| | <p>4:20pm - 5:00pm</p> <p>Applications of the lattice Boltzmann method in studying particle-laden turbulent flows</p> <p>Peng, Cheng¹; Wang, Lian-Ping^{2,3} 1: the Pennsylvania State University, United States of America; 2: Southern University of Science and Technology, China; 3: University of Delaware, United States of America</p> |
| | <p>5:00pm - 5:40pm</p> <p>Sound propagation through a rarefied gas: kinetic theory, high-order LBM, and moment equations</p> <p>Wu, Lei University of Strathclyde, United Kingdom</p> |
| | <p>5:40pm - 6:00pm</p> <p>General synthetic iteration scheme: non-linear case</p> <p>Zhu, Lianhua; Su, Wei; Zhang, Yonghao; Wu, Lei James Weir Fluid Laboratory, University of Strathclyde, United Kingdom</p> |
| 7:30pm - 10:30pm | <p>Conference Dinner Location: Howies Waterloo Place</p> |

Date: Friday, 26/Jul/2019

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| 9:30am - 10:50am | LBM for MHD and Other Complex Flows Location: PG01 Chair: Timm Krueger , University of Edinburgh 9:30am - 9:50am Lattice Boltzmann formulations for complex and active fluids based on Jeffery's equation Dellar, Paul John University of Oxford, United Kingdom |
| 9:50am - 10:10am | A theoretical model to study ionizing radiation driven colloidal particles Wilson, Graham; Bahadori, Amir; Bindra, Hitesh Kansas State University, United States of America |
| 10:10am - 10:30am | A lattice Boltzmann model for anisotropic radiative transport problems Mink, Albert; Nirsch, Hermann; Krause, Mathias J. Karlsruhe Institute of Technology |
| 10:30am - 10:50am | Investigation of Heat Transfer of MHD Al₂O₃/water Nanofluid in an Enclosure with a Semicircular Wall and a Heating Obstacle Ma, Yuan^{1,2}; Yang, Zhigang^{1,2,3} 1: Shanghai Automotive Wind Tunnel Center, Tongji University, No.4800, Cao'an Road, Shanghai, China, 201804; 2: Shanghai Key Lab of Vehicle Aerodynamics and Vehicle Thermal Management Systems, No.4800, Cao'an Road, Shanghai, China, 201804; 3: Beijing Aeronautical Science & Technology Research Institute, Beijing, China, 102211 |
| 10:50am - 11:10am | Coffee Break Location: PG01 |
| 11:10am - 12:50pm | Boundary conditions, their implementations, etc. Location: PG01 Chair: Victor E. Ambrus , West University of Timisoara 11:10am - 11:30am An improved coupled Immersed-Boundary-Lattice-Boltzmann Solver for the simulation of Particulate Flows Falagkaris, Emmanouil; Krüger, Timm The University of Edinburgh, United Kingdom 11:30am - 11:50am Diffuse bounce back condition for lattice Boltzmann method Liu, Geng; Lee, Taehun City College of New York, United States of America 11:50am - 12:10pm An Approach to Treat Boundary Nodes of Complex Porous Media for Conservative Phase-Field Lattice Boltzmann Method Zarareh, Amin; Khajepour, Soroush; Burnside, Stephen B; Chen, Baixin Heriot-Watt University, United Kingdom 12:10pm - 12:30pm Comparison of Boundary Conditions for thermal LBM Klaß, Friedemann¹; Gabbana, Alessandro²; Bartel, Andreas¹ 1: University of Wuppertal, Germany; 2: University of Ferrara, Italy 12:30pm - 12:50pm A Lattice Boltzmann Scheme for Two-phase Flow Based on a Sharp Interface Phase Field Model Hou, Yingying; Lu, Jianhua State Key Laboratory of Structural Analysis for Industrial Equipment, School of Naval Architecture, Faculty of Vehicle Engineering and Mechanics, Dalian University of Technology, Number 2 Linggong Road, Dalian, Liaoning, 116024, People's Republic of China |
| 12:50pm | Lunch Location: PG01 |

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| - 2:00pm | |
| 2:00pm - 3:40pm | <p>Multiphase, Suspensions, Biofluids, etc. Location: PG01 Chair: Baixin Chen, Heriot-Watt University</p> <p>2:00pm - 2:40pm Modelling and simulation of soft tissue mechanics and fluid-structure interaction <u>Luo, Xiaoyu</u> University of Glasgow, UK</p> <hr/> <p>2:40pm - 3:00pm Lattice-Boltzmann model for soft particles with tunable contact angle in multi-component fluids Wouters, Maarten¹; Aouane, Othmane²; Krueger, Timm³; Harting, Jens^{1,2} 1: Department of Applied Physics, Eindhoven University of Technology, The Netherlands; 2: Helmholtz Institute Erlangen-Nürnberg for Renewable Energy, Germany; 3: School of Engineering, Institute for Multiscale Thermofluids, The University of Edinburgh, UK</p> <hr/> <p>3:00pm - 3:20pm Dynamic Behavior of a Droplet Impinging on ZnO Nanostructured Surface Chen, Xue¹; Ouyang, Xiaolong²; Lu, Tao¹; Shen, Shengqiang³ 1: Beijing University of Chemical Technology, China; 2: The Pennsylvania State University, USA; 3: Dalian University of Technology, China</p> |
| 5:00pm - 6:40pm | <p>Closing Location: PG01</p> |