**PROGRAM OVERVIEW**

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| **17 October (Tuesday)** | **18 October (Wednesday)** | **19 October (Thursday)** | **20 October (Friday)** |
| 9:00-10:30 **Training Session 1** | 08:00-08:45 **Registration** |  |  |
| 08:45-09:15 **Opening** |  |  |
| 10:30-10:50 **Coffee** | Photograph |  |  |
| 09:15-10:10 **Keynote 1** | 09:00-09:55 **Keynote 2** | 09:00-10:05 **Session 10** |
| 10:50-12:20 **Training Session 2** | 10:10-11:00 **Session 1** | 09:55-11:00 **Session 6** | 10:05-11:10 **Session 11** |
| 11:00-11:20 **Coffee** | 11:00-11:20 **Coffee** | 11:10-11:30 **Coffee** |
| 12:20-13:30 **Lunch** | 11:20-12:25 **Session 2** | 11:20-12:10 **Session 7** | 11:30-12:35 **Session 12** |
| 13:30-14:00 **Training Session 3** | 12:25-14:00 **Lunch** | 12:10-14:00 **Lunch** | 12:35-14:00 **Lunch** |
| 14:00-15:05 **Session 3** | 14:00-14:50 **Session 8** | 14:00-15:05 **Session 13** |
| 14:00-14:30 **Training Session 4** | 15:05-16:10 **Session 4** | 14:50-15:10 **Coffee** | 15:05-16:10 **Session 14** |
| 16:10-16:30 **Coffee** | 15:10-16:15 **Session 9** | 16:10-16:30 **Coffee** |
| 14:30-17:30 **Training Session 5** | 16:30-17:35 **Session 5** | 16:15- 16:35 **To Yu Xian Du** | 16:30-17:35 **Session 15** |
| 16:35-18:00 **Visit the Food Museum** |
| 17:30 **Dinner** | 17:35 **Dinner** | 18:00 **Banquet & Award** | 17:35 **Dinner** |

**SPH Training Day Program**

**Venue: Room 1338W, Level 3, #1 Science Blk, Peking University**

**地点：北京大学理科一号楼三层1338W房间（计算机中心8号机房）**

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| **Training day** | **17 October (Tuesday)** |  |
| 9:00-10:30 | **Training Session 1: Theory and Application of SPH - Part 1: An Introduction to Multi-Phase Modelling in SPH** | **Dr. Xiangyu Hu** |
| 10:30-10:50 | **Coffee** |  |
| 10:50-12:20 | **Training Session 2: Advanced SPH/CG(Coarse-Grained) modelling for biomechanics and biomedical systems** | **Prof. Y. T. Gu** |
| 12:20-13:30 | **Lunch** |  |
| 13:30-14:00 | **Training Session 3: Simulation with DualSPHysics** | **Dr. Ben Rogers** |
| 14:00-14:30 | **Training Session 4: Pre- and Post-Processing (Visualisation) with DualSPHysics** | **Dr Jose Dominguez** |
| 14:30-17:30 | **Training Session 5: Practical hands-on session with DualSPHysics** | **Dr. Ben Rogers, Dr Jose Dominguez, Dr Jose González-Cao, Feng Zhang** |
| 17:30 | **Dinner** |  |

* Full day registration at Room 104 in the Peking University Overseas Exchange Center

**SPHERIC Beijing 2017 Workshop Programme**

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| **1st DAY:** | **18** **October (Wednesday)** | |
| 08:00-08:45 | **Registration** | |
| 08:45-09:15 | **Opening** | **Chair: M. B. Liu**  **B. Rogers** |
| 09:15-10:10 | **Keynote 1: Smoothed Particle Hydrodynamics, fact checking: from theory to applications** by Prof. David Le Touzé, Ecole Centrale de Nantes | **Chair: D. X. Zhang** |
| 10:10-11:00 | **Session 1: Maritime and Naval Architecture Applications** | **Chair: Aman Zhang** |
| * 1. “DualSPHysics: a numerical tool to simulate real breakwaters”   F. Zhang*Student Prize*, S. P. Shang, Alejandro Crespo, José Dominguez, Moncho Gomez-Gesteira, Corrado Altomare, Andrea Marzeddu   * 1. “Numerical simulation of green water using SPH method”   L. J. Wen, Q. D. Feng   * 1. “Application of Improved SPH Solid-Wall Boundary Model in Missile Waterexiting”   H. L. Zheng, H. F. Qiang, F. Z. Chen, C. Shi | |
| 11:00-11:20 | **Coffee** | |
| 11:20-12:25 | **Session 2: Multiple Continua and Multi-Phase Flows** | **Chair: X. Y. Hu** |
| * 1. “Multiphase Godunov-typed Smoothed Particle Hydrodynamics Method with Approximate Riemann Solvers”   Z. W. Cai, Z. Zong, L. Zhou, Z. Chen, C. Tiao   * 1. “A Two-Phase SPH Model for Sediment Laden Flows”   H. B. Shi, X. P. Yu   * 1. “Numerical simulation of water-entry problems using an improved multiphase SPH method”   H. Cheng*Student Prize*, A. M. Zhang, F. R. Ming   * 1. “Stable sharp interface method for SPH”   M. Y. Zhang | |
| 12:25-14:00 | **Lunch** | |
| 14:00-15:05 | **Session 3: Solids and Fracture Mechanics** | **Chair: M. De Leffe** |
| * 1. “Aircraft tire water spray simulation using SPH”   Y. K. Hu, Y. F. Rong, D. X. Leng, F. Xu, X. Y. Gao, R. G. Cao, W. Ding, J. Lv   * 1. “Numerical Simulation of the Damage of Multi-floor Buildings by Conical Projectile With SPH Method”   H. F. Qiang, X. Y. Sun, F. Z. Chen, G. X. Zhang   * 1. “Corrected smoothed particle hydrodynamics for simulating failure progress of model-scale ice”   X. Zheng, N. B. Zhang, Q. W. Ma   * 1. “Numerical study of the mechanism of explosive/impact welding using an improved SPH method”   Z. L. Zhang*Student Prize*, M. B. Liu | |
| 15:05-16:10 | **Session 4:** **Free Surface and Moving Boundaries Applications** | **Chair: Jose Dominguez** |
| 1. 1. “High speed water impacts of fat plates in different ditching configurations through a Riemann-ALE SPH model”   S. Marrone, A. Colagrossi, M. De Leffe, L. Chiron, D. Le Touze   * 1. “SPH Numerical Investigation OF Oscillating Characteristics of Hydraulic Jumps at an Abrupt Drop”   Diana De Padova, Michele Mossa, Stefano Sibilla   * 1. “The δALE-SPH model: an improved δ-SPH scheme containing particle shifting and ALE formulation”   P. N. Sun*Student Prize*, A. M. Zhang, A. Colagrossi, S. Marrone & M. Antuono   * 1. “SPH numerical simulation of lift-off by impact of sand particles on flat sand bed”   J. Zhao, A. F. Jin, Maimtimin Geni, X. J. Ma | |
| 16:10-16:30 | **Coffee** | |
| 16:30-17:35 | **Session 5: Geotechnical Applications** | **Chair: J. S. Wu** |
| * 1. “A comparative study of SPH and MPM in modeling mixed-mode failure in rocks”   Sam Raymond*Student Prize*, Bruce Jones, John Williams   * 1. “A SPH investigation of soil plastic behaviour with Mohr-Coulomb constitutive model”   S. H. Zhao, Ha H. Bui, Vincent Lemiale, Giang D. Nguyen   * 1. “A robust approach to model rock fracture with SPH”   Y. N. Wang, Ha H. Bui, Giang D. Nguyen, P.G. Ranjith   * 1. “An elasto-plastic-μ(I) SPH model for landslide induced debris flow”   W. T. Zhang, Y. An, Q. Q. Liu | |
| 17:35 | **Welcome cocktail** |  |

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| **2st DAY:** | **19 October (Thursday)** | |
| 09:00-09:55 | **Keynote 2: An Implicit Gradient Reproducing Kernel Particle Method: Theory and Applications** b**y Prof. J. S. Chen, University of California** | **Chair: H. L. Duan** |
| 09:55-11:00 | **Session 6: Hydraulic Applications****I** | **Chair: S. Marrone** |
| * 1. “Overview of SPH-ALE applications for hydraulic turbines in ANDRITZ Hydro”   Jean-Christophe Marongiu, Magdalena Neuhauser, Martin Rentschler, Etienne Parkinson   * 1. “Numerical and Experimental Investigation of Two Porous Wave - breaking Structures”   W. Q. Hu, Q. Fan*Student Prize*, J. M. Zhan, W. H. Cai   * 1. “SPH for the Interaction between Violent Water Wave and Upright Cylindrical Groups”   J. J. Li*Student Prize*, L. C. Qiu, X. L. He, Y. Han   * 1. “Hydrodynamics characteristics of land hinged Oscillating Wave Surge Converter with SPH method”   D. H. Zhang, Y. X. Shi, C. Huang, Y. L. Si, B. Huang, and W. Li | |
| 11:00-11:20 | **Coffee** | |
| 11:20-12:10 | **Session 7: Adaptivity (variable resolution)** | **Chair: X. H. Guo** |
| * 1. “The study on SPH method with space variable smoothing length and its applications to multi-phase flow”   W. K. Shi*Student Prize*, Y. M. Shen , J. Q. Chen   * 1. “A dynamic refinement strategy in SPH for simulating the water entry of an elastomer”   L. Wang, F. Xu, Y. Yang   * 1. “Adaptive particle splitting in the Finite Volume Particle Method”   Nathan J. Quinlan | |
| 12:10-14:00 | **Lunch** | |
| 14:00-14:50 | **Session 8: New applications of SPH** | **Chair: Y. T. Gu** |
| * 1. “ Modeling the melting process of quartz glass using SPH method”   Z. Y. Liu*Student Prize*, Q. L. Ma, H. S. Fang   * 1. “Study on Dynamic Behaviors of Liquid-filled Flexible Multibody Systems under the Low-gravity Environment”   W. Z. Kong, Q. Tian   * 1. “A SPH model for the root system of plants”   Matthias Mimault, Lionel Dupuy, Mariya Ptashnyk   * 1. “SPH simulation of drop impact on a hot wall with vaporization effects”   X. F. Yang, S. C. Kong, M. B. Liu | |
| 14:50-15:10 | **Coffee** | |
| 15:10-16:15 | **Session 9: High-Performance Computing** | **Chair: B. Rogers** |
| * 1. “Developing an Extensible, Portable, Scalable Toolkit for massively parallel Incompressible Smoothed Particle Hydrodynamics (ISPH)”   X. H. Guo, Benedict D. Rogers, Steven Lind, Peter K. Stansby   * 1. “Three-Dimensional Sloshing Simulations by Using GPU-based MPS Method”   X. Chen, X. Wen, D. C. Wan   * 1. “GPU-based SPH modeling of flood with floating bodies in urban layouts including underground spaces”   J. S. Wu, N. Li, W. Y. Liu, H. Zhang   * 1. “Improve the effectively of Computational Fluid Dynamics work based on Supercomputing Cloud”   N. Qiao | |
| 16:15-16:35 | **To Yu Xian Du** | |
| 16:35-18:00 | **Visit the Food Museum** | |
| 18:00 | **Conference Banquet & Award** | |

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| **3st DAY:** | **20 October (Friday)** | | |
| 09:00-10:05 | **Session 11: Numerical Aspects of SPH** | | **Chair: N. Quinlan** |
| 1. 1. “SPH energy balance during the generation and propagation of gravity waves”   Domenico Davide Meringolo, Y. Liu, A. Colagrossi   * 1. “Water Hammer Analysis Using SPH in Density Summation Form”   D. Q. Hou, C. Y. Huang, M. L. Wang, H. F. Duan   * 1. “Particle Trajectory Calculation in SPH”   J. Y. Shen, W. H. Lu, D. Q. Hou, Arris S. Tijsseling   * 1. “Simulating shock waves with corrective smoothed particle method (CSPM)”   C. Y. Huang, J. Deng, D. Q. Hou, Arris S. Tijsseling | | |
| 10:05-11:10 | **Session 12: Fluid Structure Interaction** | | **Chair: M. De Leffe** |
| * 1. “ SPH modeling of fluid-structure interaction (FSI)”   L. H. Han, X. Y. Hu   * 1. “Numerical modeling of 2D complex movement patterns to FSI problems using Smoothed Particle Hydrodynamics”   C. Zhuang, D. A. Hu, T. Long, G. Yang   * 1. “Implement of the MPS-FEM coupled method for the FSI simulation of the 3-D dam-break problem”   Y. L. Zhang, D. C. Wan   * 1. “A new numerical method for SPH fluid-solid coupling simulation and its preliminary verification”   X. J. Ma, Geni Mamtimin, A. F. Jin | | |
| 11:10-11:30 | **Coffee** | | |
| 11:30-12:35 | **Session 13: Modelling of Incompressible Flows** | | **Chair: A. Colagrossi** |
| 1. 1. “An Enhanced ISPH-SPH Coupled Method for Incompressible Fluid-Elastic Structure Interactions”   Abbas Khayyer, Hitoshi Gotoh, Yuma Shimizu, Hosein Falahaty   * 1. “Interaction between Solitary Wave and Flexible Plate based on MPS-FEM coupled Method”   C. P. Rao, D. C. Wan   * 1. “Modeling of single film bubble and numerical study of the Plateau structure in foam system”   Z. G. Sun, N. Ni, Y. J. Sun, G. Xi   * 1. “Numerical Simulation of Rayleigh-Taylor Instability by MPS Multiphase Method”   X. Wen, D. C. Wan | | |
| 12:35-14:00 | **Lunch** | | |
| 14:00-15:05 | **Session 14: Alternative Formulations and Particle-Based Simulation Techniques** | | **Chair: M. B. Liu** |
| 1. 1. “Numerical Simulation of Particle Collision and Breakup Behavior by SDPH-FVM Coupling Method”   H. F. Qiang, F. Z. Chen   * 1. “A Physics Evoked Meshfree Method”   Z. B. MA, Y. Z. Zhao   * 1. “Suppression of non-physical voids in the finite volume particle method”   Mohsen H. Moghimi, Nathan J. Quinlan   * 1. “The Hermit-type RRKPM for piezoelectric materials”   J. C. MA, G. F. WEI | | |
| 15:05-16:10 | **Session 15: Other applications of SPH** | | **Chair: H. F. Qiang** |
| * 1. “A development of a SPH model for simulation of abrasive-water-jet impacting on a metallic surface”   X. W. Dong, Z. L. Li, J. L. Liu   * 1. “SPH Simulation of Couette Flow with Sinusoidally Moving Solid Bounary”   H. Q. Li, H. T. Liu, J. Z. Chang   * 1. “Application of particle-based computational acoustics to sound propagation and scattering”   Y. O. Zhang   * 1. “Image processing with the SPH method”   C. Y. Huang, W. H. Lu, D. Q. Hou, X. Cheng | | |
| 16:10-16:30 | **Coffee** | | |
| 16:30-17:35 | **Session 15: Hydraulic Applications II** | **Chair: Martin Rentschler** | |
| * 1. “Analysis of the hydrological safety of dams using numerical tools: Iber and DualSPHysics”   J. González-Cao, O. García-Feal, A. J. C. Crespo, J. M. Domínguez, M. Gómez-Gesteira   * 1. “An SPH simulation of bubble cavity evolution on underwater movement”   J. R. Shao, M. B. Liu   * 1. “Construction of Two-dimensional SPH Numerical Wave Tank”   J. Y. Wang, F. Xu, Y. Yang   * 1. “An SPH numerical wave-current tank”   M. He, H. S. Wang, X. F. Gao, W. H. Xu, Y. Shi | | |
| 17:35 | **Dinner** | | |

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