

## 分论坛 1

主题: 水工模拟与量测技术一

时间: 2018 年 5 月 31 日

地点: 南京水科院综合楼 13 楼国际会议厅 (南京市鼓楼区广州路 223 号)

召集人: 谢兴华 联系电话: 13813019310 王新 联系电话: 13915943074

时间	主题	第一作者 (/汇报人)	主持人
08:30 - 08:35	分论坛主持人介绍		谢兴华
08:35 - 08:55	CFD modeling of a tangential vortex intake using Open FOAM	Shu Ning Chan	彭 静 中国水科院  Stefan Geert FHR
08:55 - 09:15	A numerical investigation of Reynolds number effects on the wind loads on cylindrical roofs	Tokiniaina Ricky Rajaoarimanga	
09:15 - 09:35	Scale-effect of flow-field and sediment size on scour at bridge pier with simple and complex pier geometry	Yifan Yang	
09:35 - 09:55	A combined hydrological and hydraulic model for flood prediction in South-Eastern hilly regions of Bangladesh applied to the Sangu River Basin	Arup Chakraborty	
<b>09:55- 10:15</b>	<b>茶歇</b>		
10:15 - 10:35	Study on the flow characteristics of resting pools in vertical slot fishway	Xiaogang Wang	Stefan Geert FHR
10:35 - 10:55	Analysis of the mixing in the shallow and subtropical Tingalpa reservoir, Australia	Xinchen Wang	
10:55 - 11:15	Experimental study on hydrodynamic performance of baffle drop structures	Wenchuang Chen	
11:15 - 11:35	Prototype observation on the mechanical characteristics of the chamber anti-collision device of large ship lifts	Xin Wang	

11:35 - 11:55	Features of approaching flow upstream of cylinders in tandem arrangement based on PIV measurement	Pingping Yang /Huilan Zhang	彭 静 中国水科院
<b>11:55 - 14:00</b>	<b>午餐</b>		
14:00- 14:05	分论坛主持人介绍		王 新
14:05- 14:25	Fluid-Structure Interaction study on hydraulic features of the whole fluid flow in a vertical axial pump and vibration performance of its blades	Yin Guojiang	谢兴华 南京水科院  Hong Zhang Griffith University
14:25 - 14:45	Operating behavior of Longma CFRD based on dam safety monitoring data	Serges Mendomo Meye	
14:45- 15:05	High-precision synchronous UTTM measuring system for flow depth and discharge in open channels	Zhigang Wang	
15:05 - 15:25	A novel wireless photoelectric propeller flow meter based on ZigBee digital transmission technology	Jun Wu /Yue jie Shu	
<b>15:25 - 15:45</b>	<b>茶歇</b>		
15:45- 16:05	Mathematical modelling and numerical simulation of damage evolution process caused by inner water penetrating out from cracks of conduits through embankment dams	Qiong Pang	Hong Zhang Griffith University
16:05- 16:25	Dam break simulation by Weakly Compressible Smoothing Particle Hydrodynamic (WCSPH) method	Congfang Ai /Jinbo Lin	
16:25-16:45	Applying SMOS soil moisture data into the HBV distributed hydrologic model for flash flood	Nguyen Ngoc Tu	
16:45-17:05	Comparison of methods of determining bed shear stress in duct flows	Dake Chen	谢兴华 南京水科院
17:05-17:25	Experimental aeration study on control valve of hydraulic driven shiplift	Jiao Wang	

## 分论坛 2

主题：水工模拟与量测新技术二

时间：2018年5月31日

地点：瑞迪大酒店三楼第6会议室（南京市鼓楼区广州路223号）

召集人：阮仕平 联系方式：13951685658 张陆陈 联系方式：15850511470

时间	主题	第一作者 (/汇报人)	主持人
08:30 - 08:35	分论坛主持人介绍		阮仕平
08:35 - 08:55	Modelling of air demand of a spillway aerator with two-phase flow models	James Yang /Penghua Teng	James Yang KTH  张建民 四川大学
08:55 - 09:15	Performance improvement of headworks: a case of Kalignadaki a hydropower plant through physical hydraulic modelling	Meg B. Bishwakarma	
09:15 - 09:35	Hydraulic characteristics of free overall in rough and steep rectangular channel	Chao Liu /Li Naiwen	
09:35 - 09:55	The study for drainage enhancement of the lower Thachin River in Thailand by cut-off	Krittikorn Thanawisitsawat	
<b>09:55- 10:15</b>	<b>茶歇</b>		
10:15 - 10:35	PIV analysis and high speed photographic observation of cavitating flow field behind circular multi-orifice plates	Zhiyong Dong	张建民 四川大学
10:35 - 10:55	Air demand due to flood discharges at Moforsen dam - CFD modelling with field measurements	Penghua Teng	
10:55 - 11:15	Application of LSPIV to environmental flows in laboratory and field cases	Shiping Ruan /Miao cao	

11:15 - 11:35	3D Modelling of Offshore Sandbank Dynamics	Stephen Clee	James Yang KTH
11:35 - 11:55	Energy dissipation of skimming flow in ski-jump-step spill way	Shangtuo Qian	
<b>11:55 - 14:00</b>	<b>午餐</b>		
14:00- 14:05	分论坛主持人介绍		张陆陈
14:05- 14:25	Flow characteristics and air induction of free-falling water jets of various shapes	Yiyi Ma /Jiafang Wei	王晓刚 南京水科院
14:25 - 14:45	Analysis of longterm hydrological changes induced by anthropogenic and climatic changes in the Guanting basin using the SWAT model	Gebdang B. Ruben	
14:45- 15:05	Cavitation-silt erosion with considering viscosity of sand suspensions	Yu Wang	Carl-Oscar Nilsson Sydkraft 水力发电公司
15:05 - 15:25	Thermal effect on the failure of hydraulic concrete structures under high velocity flow cavitation	Wenxun Qian /Yang He	
<b>15:25 - 15:45</b>	<b>茶歇</b>		
15:45- 16:05	Prediction method of field vibration induced by flood discharge of high dam	Luchen Zhang	Carl-Oscar Nilsson Sydkraft 水力发电公司
16:05- 16:25	Fluctuating pressure characteristics of different flood discharge types in MHSJ stilling basin	Zhipan Niu	
16:25-16:45	Multiphase sloshing and interfacial wave interaction with a submersed block	Obai Kargbo	
16:45-17:05	Numerical analyses of the holistic hydraulic loads characteristics of high water-head plane gate	Jinxiong Zhang /Yuchen Deng	王晓刚 南京水科院
17:05-17:25	Flow separation in the hydraulic-jump-stepped spillway	Yu Zhou	

### 分论坛 3

主题: 河工模拟与量测新技术一

时间: 2018 年 5 月 31 日

地点: 瑞迪大酒店三楼第 4 会议室 (南京市鼓楼区广州路 223 号)

召集人: 张 铭 联系方式: 13809020730 赵金箫 联系方式: 17314952869

时间	主题	第一作者 (/汇报人)	主持人
08:30 - 08:35	分论坛主持人介绍		张铭
08:35 - 08:55	Monitoring streambed elevation continuously	Daniele Tonina	辛沛 河海大学  Sven Wurms BAW
08:55 - 09:15	Sensitivity and precision analysis of an automated grain sizing method for gravel bed	Kehan Huang/ Mengzhen Xu	
09:15 - 09:35	The effect of bottom slope discontinuity on numerical solution of the Saint Venant equations	Ben R. Hodges/ Chengwei Yu	
09:35 - 09:55	Development of an autonomous stream gage based on advanced stereo LSPIV techniques	Qian Liao	
<b>09:55- 10:15</b>	<b>茶歇</b>		
10:15 - 10:35	Influence of bed elevation discordance onto the flow patterns in an open-channel confluence	Pedro Xavier Ramos	Sven Wurms BAW  辛沛 河海大学
10:35 - 10:55	Observation of Ice regime and safe dispatch research on South-to-North Water Diversion Middle Route project in winter	Wengang Duan	
10:55 - 11:15	Flood vulnerability analyses using GIS technique: a case study for the 2017 flood event in Bangladesh	Mahfuzur Rahman	
11:15 - 11:35	Lake circulation measurement with Large-scale particle tracking velocimetry and GPS drifters	Shengshu Sun	

11:35 - 11:55	A study on the coupling simulation technique of waves and tides	Maowen Chen	
<b>11:55 - 14:00</b>	<b>午餐</b>		
14:00- 14:05	分论坛主持人介绍		赵金霄
14:05- 14:25	Field measurement of turbidity currents in reservoir and bathymetry analysis	Ruidong An	朱勇辉 长江科学院  Ralph Budwig University of Idaho
14:25 - 14:45	Development of desiccation cracks in a physical model of undisturbed expansive clay slope subjected to cyclic wetting and drying	Andrew C. Amenuvor	
14:45- 15:05	Flume physical model design and verification of saltwater intrusion	Yugui Yang	
15:05 - 15:25	Research and application of bed load transport monitoring system based on image recognition technology	Ang Gao	
<b>15:25 - 15:45</b>	<b>茶歇</b>		
15:45- 16:05	Comparison of levenberg marquardt and conjugate gradient descent optimization methods for simulation of streamflow using artificial neural network	Bafithile Thabo Michael	Ralph Budwig University of Idaho  朱勇辉 长江科学院
16:05- 16:25	Numerical simulation study on the aeration and diffusion of aerated water jet based on SPH method	Hua Zhang/ Guicheng He	
16:25-16:45	Force Analysis of the Temperature-Control Curtain in a deep Stratified Reservoir	Wei He	
16:45-17:05	Fuzzy clustering prediction on the influence of high dam discharge given to the habitat of downstream bank	Yongfei Qi	
17:05-17:25	TBC		

#### 分论坛 4

主题: 河工模拟与量测新技术二

时间: 2018 年 5 月 31 日

地点: 瑞迪大酒店三楼第 5 会议室 (南京市鼓楼区广州路 223 号)

召集人: 赵根生 联系方式: 13813821636 辜晋德 联系方式: 15250963516

时间	主题	第一作者 (/汇报人)	主持人
08:30 - 08:35	分论坛主持人介绍		辜晋德
08:35 - 08:55	Shanghai flows: a web-based data-stakeholder interface for water infrastructure policy support; an exploration into international applicability, focus on Shanghai	Ties Rijcken	Alessio Radice Politecnico di Milano
08:55 - 09:15	Application of data assimilation based on particle filter algorithm on simulating hydrodynamics in the micro-model of the lower yellow river	Minghong Chen/ Juanjuan Pang	
09:15 - 09:35	Flanders maritime laboratory, new large scale facilities for towing tank and wave basin research	Stefan Geerts	赵根生 南京水科院
09:35 - 09:55	Mitigation of tsunami bore induced pressures on a vertical wall with a dike	Zhonghou Xu	
<b>09:55- 10:15</b>	<b>茶歇</b>		
10:15 - 10:35	Application of UAV Based LiDAR, Ortho/Oblique Photography Techniques in Flood Modelling	Bingyao Li/ Jingming Hou	赵根生 南京水科院
10:35 - 10:55	Experimental study on fluctuation degree and surface form resistance of riverbed	Yinjun Zhou	
10:55 - 11:15	Study on the similar scale of the physical model of salt tide	Fei Yuan	Alessio Radice Politecnico di Milano
11:15 - 11:35	Oscillations within a circular harbor over an island	Ze Eyezo'o Giresse Stanis	

11:35 - 11:55	Study on the interaction between wave and triangular obstacles with different arrangement forms	Congfang Ai/ Weiye Ding	
<b>11:55 - 14:00</b>	<b>午餐</b>		
14:00- 14:05	分论坛主持人介绍		赵根生
14:05- 14:25	Experimental study on fluid adjustment by vegetation patch in open channel	Wen Wang	潘军宁 南京水科院  Shu Ning Chan Hong Kong University of Science and Technology
14:25 - 14:45	Assessment and prediction of flood risk: a case analysis on old Brahmaputra river floodplain of Bangladesh	M.H. Shalehy	
14:45- 15:05	Simulations of extreme storms on Belgian Coast	Gensheng Zhao	
15:05 - 15:25	Numerical simulation of wave-current-structure interactions using Flow3D	Huy Thanh Pham	
<b>15:25 - 15:45</b>	<b>茶歇</b>		
15:45- 16:05	A terrain numerical simulation technique of hydraulic model	Renyi Xu	Shu Ning Chan Hong Kong University of Science and Technology  潘军宁 南京水科院
16:05- 16:25	Experiment research and numerical simulation comparison of unsymmetrical y-type penstock for hydraulic loss	Jia Dong	
16:25-16:45	Experimental study on scale effect of aeration and dynamic load induced by air jet	Jinde Gu	
16:45-17:05	Preliminary investigation on the sea waves around Myanmar	Htay Htay Aung	
17:05-17:25	TBC		



### 分论坛 5

主题: 水生态环境模拟与量测新技术

时间: 2018 年 5 月 31 日

地点: 瑞迪大酒店三楼第 3 会议室 (南京市鼓楼区广州路 223 号)

召集人: 杨 宇 联系方式: 13912920437 戴江玉: 联系方式: 15051842630

时间	主题	第一作者 (/汇报人)	主持人
08:30 - 08:35	分论坛主持人介绍		杨 宇
08:35 - 08:55	Flow field measurement downstream of Seton dam, Canada	Wenming Zhang	陈求稳 南京水科院  James Ball IAHR
08:55 - 09:15	The impacted fish conservation in Chinese hydro project	Yu Yang	
09:15 - 09:35	Experimental study of open channel flows with two layers vegetation	Xiaonan Tang/ Hamidreza Rahimi	
09:35 - 09:55	Modeling Hydro-Morpho-Dynamics of Channels Confluence Based on 2D Depth Average Flow	Hydar Lafta Ali/ Badronnisa Yusuf	
<b>09:55- 10:15</b>	<b>茶歇</b>		
10:15 - 10:35	Good rivers come from flooding. A hydrodynamic evaluation of Three Gorges Dam functionality to downstream Yangtze River, China.	Yiping Li	James Ball IAHR  陈求稳 南京水科院
10:35 - 10:55	Site distribution optimization for cost-effectively monitoring ecological effects of water transfer on shallow lakes: a case study in Lake Taihu	Jiangyu Dai	
10:55 - 11:15	The use of Distance between Soil Layers in Predicting the Hydraulic Conductivity of Saturated Granular Soils	Mohamed Ahmad ALsakan,	
11:15 - 11:35	Effects of bathymetric errors on salinity modeling in a shallow river delta	Zhi Li	

11:35 - 11:55	Monitoring dissolved oxygen within saturated soils continuously	Tonina Daniele	
<b>11:55 - 14:00</b>	<b>午餐</b>		
14:00- 14:05	分论坛主持人介绍		戴江玉
14:05- 14:25	Quantifying tidal eddies for the operational oil spill modeling in a typical Texas estuary	Dongyu Feng	杨宇 南京水科院  Ties Rijcken TU Delft
14:25 - 14:45	Numerical modelling of suspended radioactive sediment transport in a stream using matlab	Linda Sarpong	
14:45- 15:05	Numerical simulation of saltwater intrusion in a lock with long canal adopting coupled box model and three-dimensional model	Qingyuan Yang	
15:05 - 15:25	Development of a new software model to evaluate irrigation performance	Ahmed E. Elshaikh	
<b>15:25 - 15:45</b>	<b>茶歇</b>		
15:45- 16:05	A simple method for investigation on the tracing of water particles under wave action	Junwei Su	Ties Rijcken TU Delft  杨宇 南京水科院
16:05- 16:25	A comparison of numerical and Lu modeling of water flow and heat transport with laboratory experiments	Jie Ren/Wenbing Zhang	
16:25-16:45	Permeability of RHA stabilized river sediment	Moumouni Mamoudou Ibrahim	
16:45-17:05	Study on simulating reservoir water temperature stratification based on artificial neural networks	Yuan Yao	
17:05-17:25	Modelling water temperature along Missouri river using HEC-RAS	Senlin Zhu	

## 分论坛 6

主题: 研究生学术沙龙

时间: 2018年5月31日上午

地点: 瑞迪大酒店三楼多功能厅(南京市鼓楼区广州路223号)

召集人: 李君 联系方式: 13813398402

时间	报告题目	主讲人	所在部门	主持人
08:30 - 08:50	Application of Rice Water-saving Irrigation in Taihu Lake Basin	许 怡	水文水资源研究所	李君 南京水科院
08:50 - 09:10	Experimental Study on Influence of Breakwater Core Material on Wave Propagation	孙天霆	河流海岸研究所	
09:10- 09:30	Composite Alkaline Activator on Cemented Soil: Multiple Tests and Mechanism Analyses	徐 菲	材料结构研究所	
09:30- 09:50	Research on The Chain Effect and Chain-cutting Countermeasures for Reservoir Disaster	方致远	大坝安全研究所	
09:50 - 10:10	Flood risk assessment and flood control safety decision in the downstream area of Yi-Shu-Si River Basin	乌景秀	水工水力学研究所	
<b>10:10 - 10:30</b>	<b>茶歇</b>			
10:30 - 10:50	A Study on The Coupling Simulation Technique of Waves and Tides	陈茂雯	河流海岸研究所	李君 南京水科院
10:50 - 11:10	Ultrasound Excited Thermography Applied to Detect Micro Cracks in Concrete Materials	贾 宇	材料结构研究所	
11:10 - 11:30	Research on Urban Diffusive Pollutant Build-up/Wash-off Model based on Cellular Automata	齐 笑	生态环境研究中心	
11:30 - 11:50	Morphodynamics of North Branch of Yangtze Estuary in Medium-term Process Based Modeling	缴 健	河流海岸研究所	
11:50 - 12:10	Filing and Emptying system Study of High Lift Lock in China	李 君	水工水力学研究所	

### 分论坛 7

主题: 参展商模拟与量测技术宣展

时间: 2018 年 5 月 31 日下午

地点: 瑞迪大酒店三楼多功能厅 (南京市鼓楼区广州路 223 号)

召集人: 李君 联系方式: 13813398402

时间	报告题目	主讲人	参展商	主持人
14:00 - 14:20	Application of Machine Vision in Fluid Measurement	卢晶晶	南京昊控软件技术有限公司	李君 南京水科院
14:20 - 14:40	The simulation of flood discharge of Hydropower Station	路明标	南京天汛软件有限公司	
14:40- 15:00	Research and application of model experiment intelligent management platform	郑 钧	北京尚水信息技术股份有限公司	
15:00- 15:20	Application of automatic control and information technology in hydraulic test modeling	王晓东	南京苏润科技发展有限公司	
<b>15:20 - 15:40</b>	<b>茶歇</b>			
15:40 - 16:00	Automated Acoustic Monitoring Systems for Quantifying Fish Passage at Hydropower Facilities	黄亚东	上海泽泉科技股份有限公司	李君 南京水科院
16:00 - 16:20	Measuring technologies of Hydrodynamic and sediment in Lab	龚良平	上海精导科学仪器有限公司	
16:20 - 16:40	Energy saving analysis and renovation plan for laboratory operation	王小宝	南京博森科技有限公司	
16:40 - 17:00	Application of Tianfu Software in Water Conservancy Industry	黄峻森	南京天汛软件有限公司	