Profiles of Doctoral Supervisors of College of Hydraulic & Environmental Engineering

Prof. He Weijun

Date of Birth: November 1st, 1965

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Telephone： 0717-6392041

Faculty: College of Hydraulic & Environmental Engineering

Job Title: Professor

Education:

(1)July, 1982--July, 1986: Huazhong Institute of Technology, Bachelor of Engineering in Mechanical Engineering

(2)September, 1992--July, 1996: Chongqing University, Master of Economics in Technical Economy

(3)September, 2005--June, 2008: Huazhong University of Science and Technology, PhD of Business Administration

Professional Experiences：

(1)September, 1985--September, 1987: management in the second faculty of Mechanical Engineering of Huazhong Institute of Technology

(2)October, 1987--July, 1996: management in Gezhouba Institute of Hydroelectric Engineering

(3)July, 1996--June, 2000: management in Wuhan University of Hydraulic & Electric Engineering / Yichang

(4)March, 2007 to now: Deputy Secretary of Party Committee of China Three Gorges University

(5)April, 2012 to now: President of China Three Gorges University

Research Directions:

(1)Management Science and Engineering

(2)Technical Economy

(3)Logistics Engineering

Academic Research：

1．Published Papers(since 2011):

[1] He Weijun, Zeng Dexian, Culture Soft Power: The Powerful Motivation of Regional Economic Development, Guangming Daily (Theory Edition) , 2012

[2]He Weijun, *Promoting Competitiveness of Social Capitals*, Hubei Daily (Theory Edition) , 2012

[3] He Weijun, Shen Changgeng, Li Wei, *Evaluation and Analysis of Economic Development*

Level in All Counties (cities and districts) of Wuling Mountain Areas, Hubei Social Sciences, 2014

[4]He Weijun, Yuan Liang, Luo Liping, Chai Tao, *Game Theory Perspective on Externalities of Enterprise Green Production*, Academic Journal of Wuhan University of Technology (Social Sciences Edition) , 2013

[5]He Weijun, Gao Xingqiang, Luo Liping, *Technoeconomic Analysis of Yunnan Wind Power Development Projects in the High-Altitude Mountain Environment*, Ecological Economy, 2013

[6]He Weijun, Yuan Liang, Wu Xia, *Stable Matching and Market Design--Academic Contribution from the Winner of 2012 Nobel Economics Prize*, Commercial Times, 2013

[7]He Weijun, Yuan Liang, Li Lu, *Empirical Analysis of Relations Between Economic Growth and Industrial Structure--On a Basis of Time Series Data of Yichang City from 1990 to 2011*, Jiangsu Commercial Forum, 2013

[8] He Weijun, Yuan Xin, *Research on Relations of Industrial Cluster and Race Regional Economic Development--With Example of Enshi Tujia and Miao Autonomous Prefecture, Hubei Province*, Jiangsu Commercial Forum, 2012

[9] He Weijun, Liu Yongji, Hu Fang, *Research on the Role of the Government in Nurturing the Feature Industrial Clusters in Ethnic Minority Areas*, Reform and Strategy, 2011

[10] He Weijun, Ren Yuepan, *Necessity and Approach of the Three Gorges Logistics Processing Industry Platform Construction*, China Logistics & Purchasing, 2011

[11]He Weijun, Guan Xiongying, Ren Yuepan, *Action Mechanism Research of Service Support in Regional Logistics Center*, Contemporary Economics, 2011

2. Published Books(since 2011):

[1]He Weijun, Village Survey of China Ethnic Minorities (Miao Nationality)--Xiaomaopoying Village, China Economic Publishing House, 2014

[2] He Weijun, County Economy Development Path and Mode--With Example of Yidu City, Science Press, 2014

[3] He Weijun, Sustainable Development of The Three Gorges Logistics Center Construction and Economic Belt in the Upper Reaches of Yangtze River, China Social Sciences Publishing House, 2012

[4] He Weijun, China's National Economy Village Survey Series, Ziqiu Village Survey (Tujia ethnic group), China Economic Publishing House, 2011

[5]. He Weijun, Zeng Yuping, *Micro-economics*, Wuhan University Press, 2012

[6]. He Weijun, Zeng Yuping, *Macro-economics*, Wuhan University Press, 2011

3. Honors and Awards(since 2011):

(1) First prize of Teaching Achievements of Hubei Province, 1 item

(2) Second prize of Philosophy and Social Science Excellent Achievements of Hubei Province, 2 items

(3) Second prize of Science and Technology Progress Award of Hubei Province, 1 item

(4) Second prize of Development Research Award of Hubei Province, 2 items

(5) Third prize of Development Research Award of Hubei Province, 1 item

(6) Third prize of Excellent Social Science Achievements of State Ethnic Affairs Commission, 1 item

(7) Third prize of Excellent Policy-making Consulting Achievements Award of China Association for Science And Technology, 1 item

(8) First prize of Scientific and Technological Progress of Yichang City, 1 item

(9) First prize of Excellent Social Sciences Achievements, 1 item

4. Membership of Professional Bodies:

(1) President of China Three Gorges University

(2) Distinguished Visiting Professor of “Three Gorges Scholar”

(3) Special Allowance Specialist of Hubei Province people’s government

(4)Committee Member of Teaching Steering Committee under Ministry of Education in economics major of higher education institution from 2013 to 2017

(5) President of Hubei Three Gorges Cultural Research Association

(6) Member of 7th and 8th Hubei Social Sciences joint committee

(7) Member of China Hydraulic Electrogenerating Association

Prof. Huang Yingping

Date of Birth: November 1964

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Faculty: College of Hydraulic & Environmental Engineering

Job Title: Professor

1. Education:

(1)September 1980 -July 1984: majored in chemistry education, Department of Chemistry, Central China Normal University and obtained Bachelor Degree of Science;

(2)September 1989 -July 1992: obtained Master's Degree in Analytical Chemistry in the Chemistry Department of Wuhan University, engaged in synthesis of organic reagents and micro-elements analysis

(3)September 1997 - July 2000: obtained PhD in Analytical Chemistry in the Chemistry Department of Wuhan University, engaged in the research of enzyme catalysis

(4)September 2001 -June 2003: post-doctoral research at Institute of Chemistry,Chinese Academy of Sciences, engaged in the study of photocatalysis and environment photochemistry

(5)January 2006-May 2006: pay an academic visit to Map. Tech. Co and Ferrum College in the United States, engaged in the study of river ecology and pollution ecology

2. Professional Experiences：

July 1984 to now: management in teaching and research work in the China Three Gorges University.

3. Research Directions:

(1) The Ecological Hydrotechnics (Design and Management of Green Hydropower Project)

Fish Ecology (Design and Evaluation of Hydropower Project Fish Passage)

(2) Pollution ecology (Ecological Barrier at Reservoir Area and Bank Construction and Evaluation)

(3) Photocatalysis and Environmental Photochemistry (Green Photochemical Treatment Methods and Technology to Toxic and Organic Contaminants)

4. Published Papers(since 2011):

[1]Lu Cai, Lei Chen, David Johnson, Yong Gao, Prashant Mandal, Min Fang, Zhiying Tu, Yingping Huang*, Integrating Water Flow, Locomotor Performance and Respiration of Chinese Sturgeon during Multiple Fatigue-Recovery Cycles, PLOS ONE, 2014

[2]Tao Xu, Yingping Huang*, Jun Chen, Metal Distribution in the Tissues of Two Benthic Fish from Paddy Fields in the Middle Reach of the Yangtze River, Bull Environ Contam Toxicol, 2014

[3]Lu Cai, Guoyong Liu, Rachel Taupier, Min Fang, David Johnson, Zhiying Tu, Yingping Huang*, Effect of temperature on swimming performance of juvenile Schizothorax prenanti, Fish Physiology and Biochemistry, 2014

[4]Cai Lu, Fang Ming, David Johnson, Shaoming Lin, Zhiying Tu, Guoyong Liu, Yingping Huang*, Interrelationships between feeding, food deprivation and swimming performance in

juvenile grass carp, Aquat Biol, 2014

[5]Haobo Hou, Xiaoxing Wang, Chuncheng Chen, David M. Johnson, Yanfen Fang, Yingping Huang*, Mechanism of photocatalytic oxidation of guanine by BiOBr under UV irradiation, Catalysis Communications, 2014

[6]Shu-lian Wang, Ling-li Wang, Wan-hong Ma, David M. Johnson, Yan-fen Fang, Man-ke Jia, Ying-ping Huang*, Moderate valence band of bismuth oxyhalides (BiOXs, X=Cl, Br, I) for the best photocatalytic degradation efficiency of MC-LR, Chemical Engineering Journal, 2015

[7]Yanfen Fang, Yu Zhang, Wanhong Ma, David M. Johnson, Ying-ping Huang*, Degradation of Microcystin-LR in water: Hydrolysis of peptide bonds catalyzed by maghemite under visible light, Applied Catalysis B: Environmental, 2014

[8]Shulian Wang， Wanhong Ma, Yanfen Fang, Manke Jia, Yingping Huang*, Bismuth oxybromide promoted detoxification of cylindrospermopsin under UV and visible light illumination, Applied Catalysis B: Environmental, 2014

[9]Yan-Fen Fang, Wan-Hong Ma, Ying-Ping Huang*, Gen-Wei Cheng, Exploring the Reactivity of Multicomponent Photocatalysts: Insight into the Complex Valence Band of BiOBr, Chem. Eur. J., 2013

[10]Liu Shuan, Zhao Xiaorong, Sun Huyuan, Li Ruiping, Fang Yanfeng, Huang Yingping*, The degradation of tetracycline in a photoelectro-Fenton system, Chemical Engineering Journal, 2013

[11]Lu Cai, Rachel Taupier, David M. Johnson, Zhiying Tu, Guoyong Liu, Yingping Huang*, Swimming Capabilityand Swimming Behavior of Juvenile Acipenserschrencki, J. Exp. Zool., 2013

[12]Fang Yanfen, Huang Yingping*, Yang Jing, Wang Pan, Cheng Genwei, Unique Ability of BiOBr To Decarboxylate D-Glu and D-MeAsp in the Photocatalytic Degradation of Microcystin-LR in Water, Environmental Science & Technology, 2011

5. Published Books (since 2011):

[1]Zhang Huashan, Wang Hong, Zhao Yuanyuan. Huang Yingping (Engaged in writing), *Molecular Probe and Detection Reagent*, Science Press, 2002

[2]Huang Yingping, *Experimental Textbook for Chemistry Innovation*, Huazhong Normal University Press, 2010

[3]Huang Yingping, *Experiment of Environment Analysis (Chinese-English bilingual textbook)*, Huazhong Normal University Press, 2011

[4]Huang Yingping, *Analysis on Chemistry Experiment (Chinese-English bilingual textbook)* , Huazhong Normal University Press, 2012

6. Research Projects (since 2011)

(1)2012-2015, Huang Yingping/Liu Liming, Jia Manke, Guyan, Fang Yanfen, Research on Inorganic Waterproof Technology for Foamed Gypsum and Retarder Specially for Gypsum, 863 sub-projects

(2)2013-2015, Huang Yingping/Zhang Liping,Xu Tao, Guyan, Luo Yuhong(2013.1-2015.12), Synthesized Demonstration of Rural Potable Water Guarantee Technology in Military Region, Fund Transfer of Scientific and Technological Achievements in Agriculture

(3)2012-2015, Huang Yingping/Li Ruiping, Guyan, Wang Jianzhu, Luo Huajun, Research and Demonstration of Comprehensive Treatment of Small Watershed Phosphorus Pollution in Reservoir Area and Water Bloom Control, National special water project

(4)2014-2018, Huang Yingping/ Li Ruiping, Luo Guangfu, Fang Yanfen, New Approach of Producing Hydroxyl Radical Degradation Organic Pollutant by Activated Molecule of Visible Light,

Surface project of National Natural Science Foundation of China

(5)2012-2015, Huang Yingping/Luo Guangfu, Guyan, Fang Yanfen, Research on Photochemical Oxidation Mechanism of Microcystic Toxins, Surface project of National Natural Science Foundation of China

7. Honors and Awards(since 2011):

(1)2013, Effect of Reservoir Regulation on the Ecological System in Downstream River Channel and the Eco-Friendly Regulation, Second prize of Dayu Hydro Science Technology Award

(2)2013, Research and Demonstration of Ecological Protective Technique and Pollution Reduction and Prevention in Hydro-fluctuation Belt in Typical Tributary of the Three Gorges Reservoir Region, First prize of Yichang Scientific and Technological Progress

(3)2014, Water Bloom Mechanism and Prevention and Control Technology on the Tributary of the Three Gorges Reservoir, First prize of Hubei Scientific and Technological Progress

(4)2014, Key Technology and Application of New Type Efficient Slow-release Urea Production, First prize of Yichang Scientific and Technological Progress

8. Membership of Professional Bodies:

(1)Managing Director of Hubei Provincial Chemistry and Chemical Engineering Society

(2)Vice Chairman of Hubei Provincial Chemistry and Chemical Engineering Specialized Committee

(3)Director of Environmental and Ecological Restoration Specialized Committee of Hubei Society for Environmental Sciences

(4)Vice Chairman of Analytic Chemistry Specialized Committee of Hubei Provincial Chemistry and Chemical Engineering Society

Prof.Tian Bin

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Faculty: College of Hydraulic & Environmental Engineering

Job Title: Professor

1. Education:

(1) September 1982 to June 1986: majored in Water Conservancy and Hydropower Engineering Construction, Gezhouba Institute of Hydroelectric Engineering

(2) September 1989 to June 1992: Master's Degree in Hydroelectric Engineering, Department of Hydroelectric Engineering, Hohai University

(3) June 1992 to January 1996: Doctor's Degree in Hydraulic Structure Engineering, College of Water Conservancy and Hydropower Engineering, Hohai University

(4) September 2000 to March 2001: Post-doctoral Research in Geotechnical Engineering, LILLE 1 University-Science and Technology, France

2. Professional Experiences：

(1)July 1986 – August 1989: Teaching Assistant, Department of Water Conservancy and Hydropower Engineering, Gezhouba Institute of Hydroelectric Engineering

(2) Januray 1996 – December 1997: Lecturer, Deputy Dean, Department of Constructional Engineering, Wuhan University of Hydraulic & Electric Engineering (Yichang)

(3) January 1998 – November 2002: Associate Professor, Dean, College of Civil and Hydroelectric Engineering, China Three Gorges University

(4) November 2002 - November 2007: Professor, Dean, Department of Science and Technology, China Three Gorges University

(5)December 2007 – December 2008: Director, Office of Key Discipline Construction, China Three Gorges University

(6)January 2009 – December 2010: Assistant to President, China Three Gorges University

(7) January 2011- June 2012: Vice President, China Three Gorges University

(8) July 2007 to now: Deputy Secretary of Party Committee, Deputy Secretary of Party Committee

3. Research Directions:

(1) Designing Theories of High Dam and High Damming Technology

(2) Stability Evaluation and Reinforcement of Side Slope

(3) Risk Analysis of Structure and Prediction of Durability

4. Published Papers(since 2011):

[1]Tian Bin,Lu Xiaochun,Huang Yaoying,Jiang Dingguo, Excavation Disturbance and Its Influential Factors on Material-yard Slope of Guandi Hydropower Station in Yalong River, Chinese Journal of Rock Mechanics and Engineering，2010

[2] Tian Bin, Peng Hui, Liu Defu, Zhu Wenfeng, Research on the Optimum Joint Closure

Temperature of High Arch Dam Considering Impoundment for Power Generation Ahead, Journal of Hydroelectric Engineering，2010

[3] Tian Bin, Lu Xiaochun, Sun Dawei, Tong Fuguo(2012), Study on Earthquake Response Behaviors of Dongqing Concrete Facing Rockfill Dam, Water Resources and Power

5. Published Books(since 2011):

[1] Tian Bin, Meng Yongdong, The Technology and Practice of the 3D Modeling and Construction Process Simulation of Water Conservancy and Hydropower Engineering, China Water & Power Press, 2008

[2] The Temperature Field and Temperature Controlling Optimization of the Closure of the Arch Dam, China Water & Power Press, 2008

6. Research Projects(since 2011)

(1) 2010-2012, Tian Bin, The Risk Decision Research of Function Degradation and Durability Prediction of Concrete Dam, Natural Science Foundation of Hubei Province for Innovation Group Project

(2) 2011-2013, Tian Bin, The Stability Analysis and Construction Simulation Study of Loushui Linxihe River Hydropower Station Concrete Arch Dam Structure and Skewback, Zhongnan Engineering Corporation Limited of POWERCHINA

(3) 2011-2014, Tian Bin, First Phase Development of Integrated Design of Gravity Dam, Beijing Engineering Corporation Limited of HYDROCHINA CORPORATION

(4) 2009 -2012, Tian Bin, The Feasibility Study of Yunan Lancangjiang River Dahuaqiao Hydropower Station and Seismic Analysis of Roller Compacted Concrete Gravity Dam, Beijing Engineering Corporation Limited of HYDROCHINA CORPORATION

7. Honors and Awards(since 2011):

(1) 2012, The Research of the Extreme Ice Climate and the Prevention Technology of Geological Disasters, Second Prize of Scientific and Technological Progress of Hubei Province

(2) 2011, The Aqueductc Construction Technology Study of Beijing to Shijiazhuang Section of the Middle Route Project of South-to-North Water Diversion, Third Prize of Scientific and Technological Progress of Hubei Province

8. Membership of Professional Bodies:

(1) Concrete Faced Rockfill Dam Committee Member of China Society for Hydropower Engineering

(2) Environmental Geotechnics Council Member of Chinese Society for Rock Mechanics and Engineering

(3) Engineering Risk and Insurance Research Executive Director of China Civil Engineering Society

(4) Executive Director of Hubei Society for Mechanics

(5) Executive Director of Hubei Society for Hydropower Engineering

Prof. Liu Defu

Date of Birth: September 1962

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Telephone：

Faculty: College of Hydraulic & Environmental Engineering

Job Title: Professor

1. Education:

(1)1978-1982:Bachelor of Hydraulics, Gezhouba Institute of Hydroelectric Engineering

(2)1984-1987:Master Degree of Hydraulic Structure, Hohai University

(3)1992-1997: PhD of Hydraulic Structure, Wuhan University of Hydraulic & Electric Engineering (Yichang)

2. Professional Experiences：

(1)1998, served as vice-president, professor and doctoral candidate supervisor of Wuhan University of Hydraulic & Electric Engineering (Yichang)

(2) 2001, served as president and deputy secretary of China Three Gorges University,and the doctoral candidate supervisor of Wuhan University and Dalian University of Technology

(3) July 2011-current,served as the president of Hubei University of Technology, and the doctoral candidate supervisor of Wuhan University

3. Research Directions:

(1) Accumulative Effect and Its Control of Cascade Reservoir Environment

(2) Optimal Operation of Cascade Reservoir Environment

(3) Biology Passing Dam technology

(4) Environmental Problems and Ecological Restoration of Rivers and Lakes

4. Published Papers (since 2011):

[1]Liu Liu, Liu Defu, Johnson David, Effects of vertical mixing on phytoplankton blooms in Xiangxi Bay of Three Gorges Reservoir: implications for management, Water research,2012

[2]Yang Zhengjian, Liu Defu, Ji Daobin, An eco-environmental friendly operation: An effective method to mitigate the harmful blooms in the tributary bays of Three Gorges Reservoir, Sci China Tech Sci,2013

[3] Zhang Yu, Liu Defu, Ji Daobin, The Impacts of the Stratified Density Currents on Supply Pattern of Main Nutrients in Xiangxi River, Environmental science, 2012

[4]Yao Xujiao, Liu Defu, Yang Zhengjian,Preliminary Studies on the Mechanism of Winter Dinoflagellate Bloom in the Xiangxi Bay of the Three Gorges Reservoir, Research of Environmental Sciences, 2012

[5] Tian Zebin, Liu Defu, Yang Zhengjian, Cyanobacterial Xiangxi Bay, Three Gorges Reservoir, China Environmental Science, 2012

[6]Fang, Xiaofeng, Zhengjian Yang, Daobin Ji,Responses of spring phytoplankton communities to their habitats in the Xiangxi Bay of Three Gorges Reservoir, China ,Acta Ecologica Sinica, 2013

[7]Xiao, Shangbin, Defu Liu, Temporal variation of methane flux from Xiangxi Bay of the Three Gorges Reservoir, Scientific reports, 2013

[8]Xiao, Shangbin, Wang Yuchun ,Liu Defu,Diel and seasonal variation of methane and carbon dioxide fluxes at Site Guojiaba, the Three Gorges Reservoir,Journal of Environmental Sciences, 2013

5. Published Books (since 2011):

Liu Defu, Huang Yuling, Ji Daobin, Yang Zhengjian,Water Bloom and Ecologic Regulation on the Tributary of the Three Gorges Reservoir, China WaterPower Press, 2013

6. Research Projects (since 2011):

(1) 2013, Xingshan Co Follow-up Work of The Three Gorgeson: Feasibility Study on Parts of Projects of Ecological Environment Construction and Protection , Liu Defu

(2) 2014-2016, Combined Dispatching Technology Research and Demonstration of Reservoir Groups Controlled by Water Bloom in Tributary of the Three Gorges Reservoir, Liu Defu

(3) 2014-2016, Habitat Evolvement Mechanism and Water Bloom Prediction of Phytoplankton in the Three Gorges Reservoir, Liu Defu

(4) 2015-2018, Water Mechanism of Channel Reservoir and Cooperative Study on Prevention and Control Technology, Liu Defu

7. Honors and Awards (since 2011):

(1) Simulation and Regulation on Ecological Environmental Effect in Water Resources and Hydropower Engineering, Second prize of Ministry of Education,2014

(2) Water Bloom Mechanism and Prevention and Control Technology on the Tributary of the Three Gorges Reservoir (First prize of Hubei Scientific and Technological Progress,2014

8. Membership of Professional Bodies:

(1)Vice Chairman of Ground Specialized Committee of Chinese Society for Rock Mechanics and Engineering(Hubei)

(2)Editorial Board Member of Engineering Mechanics

(3)Managing Director of Chinese Hydraulic Engineering Society

(4)Vice Chairman of Hubei Hydraulic Engineering Society and Hubei Society for Hydropower Engineering

(5)Chairman of Advisory Committee of Yichang Government

(6)Director of Engineering Center of Ecotope Education Department of the Three Gorges Reservoir

Prof. Zhou Yihong

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Telephone： 0710-6392165

Faculty: College of Hydraulic & Environmental Engineering

Job Title: Professor

1. Education:

(1)September 1984-July 1988: Bachelor Degree in Water Resources and Hydropower Engineering ,Wuhan University of Hydraulic & Electric Engineering

(2)September 1988-July 1990: Master Degree in Hydraulic Structure Engineering , Wuhan University of Hydraulic & Electric Engineering

(3)September 1990-July 1995: PhD in Hydraulic Structure Engineering, Wuhan University of Hydraulic & Electric Engineering

2. Professional Experiences：

(1)June 1995-June 2008: State Key Laboratory of Water Resources and Hydropower Engineering Science, Wuhan University, professor, doctoral supervisor

(2)June 2007-now: College of Hydraulic & Environmental Engineering, CTGU, professor, doctoral supervisor, dean

3. Research Directions:

(1) Construction of Water Conservancy Project

(2) Hydraulics and River Dynamics

(3) Concrete Dam Analogue Simulation

4. Published Papers(since 2011):

[1] Huang Yaoying, Zheng Hong, Zhou Yihong, *Study of Thermal Stress for Mass Concrete Considering Concrete Age and Elastic-plasticity Creep*, Journal of Sichuan University(Engineering Science Edition), 2011

[2] Huang Yaoying, Zhou Yihong, Zhou Jianbing, *Pipe Cooling Heat Transfer Calculation Model Energy Analysis*, Journal of Marine Traffic Engineering, 2012

5． Published Books(since 2011):

[1] Zhou Yihong ,Water Resources and Hydropower Engineering Construction Supervision, 2004

6. Research Projects(since 2011):

(1) 2011-2013, Based on the temperature field and the coupling of the concrete dam construction process simulation model and optimization, the National Natural Science Fund Projects, Zhou Yihong

(2) 2010-2012, Intelligent roller compacted concrete dam construction simulation mechanism and allocation of resources and production scheduling optimization, YouthFund Project of National Natural Science Fund, Zhao Chunjun/Zhou Yihong

7. Honors and Awards(since 2011):

(1) Second Prize of National Excellent Teaching Achievements, 3 items

(2) First Prize of Provincial Excellent Teaching Results, 3 items

(3) Second Prize of Provincial Excellent Teaching Results, 1 item

(4) Second Prize of National Scientific and Technological Progress Awards, 1 item

(5) Special Award of Provincial Science and Technology Progress Prize, 1 item

(6) First Prize of Provincial Science and Technology Progress Prize, 2 items

(7) Second Prize of Provincial Science and Technology Progress Prize, 1 item

Prof. Dong Xiaohua

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Faculty: College of Hydraulic & Environmental Engineering

Job Title: Professor

1. Education:

(1)February 2014-April 2014: Training class (65th session for cadres from Institution of Higher Learning in Ministry of Education Middle-of-south Educational Administration Cadre Training Center

(2)July 2012-July 2012: HKU SPACE （School of Professional and Continuing Education, The University of Hong Kong）

(3)July 2011-July 2011: 2001 Advanced Study and Training Class for In-service Teachers, Intitute of Hydrology and Water Resource of HHU

(4)March 2006-March 2008: Enterprise Post-doctoral, China Three Gorges Project Corporation Postdoctoral Station, Wuhan University Water Conservancy Project Postdoctoral Station

(5)January 2001-August 2005: Doctoral Candidate, University of Twente, Water Conservancy Project Engineering

(6)July 1993-June 1996: Master's Degree, Light Industrial Machinery major, Department of Mechanics, Hubei Engineering College

(7)September 1989-June 1993: Bachelor's Degree, Light Industrial Machinery major, Department of Mechanics, Hubei Engineering College

2. Professional Experiences：

(1)January 2010 - now: Dean, College of Hydraulic & Environmental Engineering, China Three Gorges University

(2)September 2005-December 2009: , Assistant of the Dean, Department Head, College of Civil and Hydroelectric Engineering, China Three Gorges University

(3)July 1996-December 2000: Lecturer, Deputy Dean, College of Mechanical and Material Engineering, China Three Gorges University

3. Research Directions:

(1) Ecological Hydrology

(2) Hydrologic Forecasting

(3) Reservoir Optimal Operation

4. Published Papers (since 2011):

[1]Dong Xiaohua,Yu Dan, Liu Chao, Li Lei,Song Sanhong,Lv Zhixiang, *Visual and Modularized Simulation of Surface Flow Concentration Processes Based on Simulink*, Journal of System Simulation, 2013.

[2]Dong Xiaohua,Yu Dan, Liu Chao, Li Lei,Song Sanhong,Lv Zhixiang, *Application of Artificial Neutral Networks in Runoff Forecasting Based on Mean Linear Particle Swarm Optimization Method*, Journal of China Hydrology, 2013.

[3]YU Dan, DONG Xiaohua, LI Lei, WANG Jiancheng, LI Zhonghua, *A comparison of multi-gage and single-gage calibration of the SWAT model for runoff simulation in Qingjiang river basin*, Water Resources and power, 2014

[4]LI Lei, DONG Xiaohua, YU Dan, LIU Ji, ZHOU Qingping, *Study on runoff simulations on Qingjiang River Basin by SWAT model*, Yangtze River, 2013

[5]LIU Ji ,DONG Xiao hua , LI Ying hai. *Uncertainty Analysis of Monthly Water Balance Model Based on MOMM-GLUE Algorithm,* Water Resources and Power,2011

[6]BO Huijuan , DONG Xiaohua , DENG Xia. *On the stage of the Three Gorges Reservoir flood method.* YELLOW RIVER, 2011

[7]BO Huijuan , DONG Xiaohua , DENG Xia. *Application of Dynamic Control of Flood Control Water Level to Three Gorges Reservoir.* Water Resources and Power*,* 2011

5. Published Books(since 2011):

Dong Xiaohua.*Appropriate Flow Forecasting for Reservoir Operation*, PrintPartners Ipskamp BV, Enschede, the Netherlands, 2005

6. Research Projects (since 2011):

(1)2013-2015, Research on flood probability forecast method in compound river channel of the Huaihe River, the 12th Five-Year Plan Public Welfare Industry Special Fund Project Ministry of Water Resources

(2)2012-2015, "Three Gorges reservoir ecological hydrology and water resources project construction" Water Resources Security Collaborative Innovation Center in Hubei province, Hubei Provincial Department of Education

(3)2012, Decision platform software system test for joint dispatching of giant reservoir group, China Three Gorges Group

(4)2011-2012, Compiled *Assessment Procedures for Environmental Impact of Small Hydropower Planning*, Institute of Rural Electrification Ministry of Water Resources

(5)2013, the follow-up work in the Three Gorges: the preliminary design of flood control project in Xujiachong area, Taipingxi town, Yiling district, Xujiachong area, Taipingxi Town, Yiling district Yichang city

(6)2012-2013, the follow-up work in the Three Gorges: project feasibility study on flood control project in Xujiachong area, Taipingxi town, Yiling district , Yangtze River Engineering Supervision Consulting co., Ltd (Hubei)

7. Honors and Awards(since 2011):

(1)2014, Hydrology and water resources engineering personnel training mode research and practice based on engineering practice and innovation ability training, the first prize in the 7th Three Gorges University Teaching Achievement Prizes in 2014

(2)2013, Research on Optimal Dispatching Methods in the Middle Stage of the Three Gorges Reservoir and the Incoming Runoff Forecast Efficiency,The 2nd Youth Harnessing the Huaihe River BBS, Excellent Paper, 2013

(3)Educational reform research and practice in water conservancy related majors based on the engineering ability training, the first prize of Hubei Teaching Achievements, 2013

(4)Curriculum reform and practice in water resources and hydropower engineering based

on the three-dimensional teaching resources , second prize of CTGU teaching achievement prize, 2012

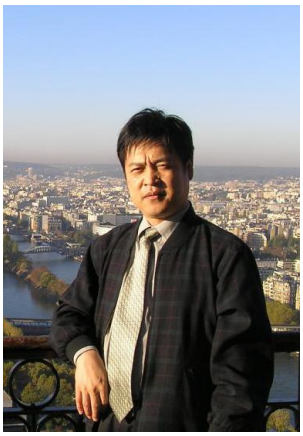
8. Membership of Professional Bodies:

(1)Water resources security committee director of the center for collaborative innovation in Hubei province,vice director, the Three Gorges Reservoir ecological hydrology and water resource research team, person in charge

(2)The Ministry of Education water conservancy related engineering teaching steering committee hydrology and water resources engineering construction steering group, committee member

(3)International Association of Hydrological Sciences, member

Prof. Guo Qi



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Faculty: College of Hydraulic & Environmental Engineering

Job Title: Professor

1. Education:

(1)September 1980.-July1984, Bachelor's Degree of Water Conservancy and Hydropower Engineering, Gezhouba Institute of Hydroelectric Engineering

(2)September 1999-June2001, Master's Degree of Management Science and Engineering, Wuhan University

(3)September 2008-December 2011, Doctor's Degree of Management Science and Engineering, Wuhan University of Technology

2. Professional Experiences：

(1)July1984-November 1987, Teacher, College of Water Conservancy Engineering, Gezhouba Institute of Hydroelectric Engineering

(2)November 1987-May2001, Head of the Teaching and Research Section, Deputy Head of Department, Deputy Dean, Faculty of Management of Wuhan University of Hydraulic and Electric Engineering, Yichang

(3)May2001-December 2009, Chief Economist, Deputy Dean, Secretary of the Party Committee, Campus Construction Office and Economics and Management College of China Three Gorges University

(4)December 2009-December 2013, Secretary of the Party Committee, College of Hydraulic & Environmental Engineering, China Three Gorges University

(5)December 2013 - now, Department Director of Party Committee Research Department, Graduate School of China Three Gorges University

3. Research Directions:

(1) Investment Control of Hydropower Engineering

(2) Evaluation and Risk Research of Water Conservancy Project

4. Published Papers(since 2011):

[1]Guoqi 1/3, Research on Adverse Selection of BT Project Based on Signaling Game Model Energy Education Science and Technology, 2014

[2]Guo Qi 1/2, *Evaluation Method of EPC Contracting Based on Cloud Model and Gray Relational Degree*, Hydroelectric Generation, 2014

[3]Guo Qi 1/2, *Analysis on Surface under EPC General Contract Mode,* Project Management Technique, 2014

[4]Guo Qi 1/2, *Reservoir Region Immigration Risk Assessment Based on AHP Fuzzy Comprehensive Evaluation Method*, Yangtze River, 2014

[5]Guo Qi 1/3, *Study on Several Kinds of Scale in Analytic Network Process*, WaterSaving

Irrigation, 2014

[6]Guo Qi 1/3, *Project Schedule Risk Analysis Based on Monte Carlo Simulation of project network planning*, Project Management Technology, 2013

[7]Guo Qi 1/2, *Optimization on Reservoir Immigrants' Production and Settlement Based on ANP Method*, Water Resources and Power, 2013

[8]Guo Qi 1/3, *Combination Forecasting Model of Manufacturing Energy Consumption in Inner Mongolia*, Water Resources and Power, 2012

5. Published Books(since 2011):

[1]Guo Qi 1/4, *Hydropower Project Cost Guidelines (Basis volume)*, China Water & Power Press, 2010

6. Research Projects(since 2011)

(1)2014-2015, Research on quota establishment method in hydropower construction project

(2)2013-2014, Research on hydropower immigration project organization and design

(3)2012-2013, Land acquisition and resettlement investment estimate adjustment report during Pubugou Dam construction

7. Membership of Professional Bodies:

⑴Member of Chinese Management Science and Engineering Institute

⑵Committee member of Chinese Hydropower Engineering Institute Project Cost Special Committee

Prof. Tong Fuguo

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Telephone：

Faculty: College of Hydraulic & Environmental Engineering

Job Title: Professor

1. Education:

(1)September 1993 to June 1997, Bachelor's Degree, Gezhouba Institute of Hydropowerelectric Engineering

(2)September 2002 to June 2004, Master's Degree, China Three Gorges University

(3)January 2007 to March 2010, Doctor's Degree, Royal Institute of Technology, Sweden

(4)November 2010 to December 2012, Post-doctoral, Uppsala Univerity, Sweden

2. Professional Experiences：

(1)June 1997 to September 2002, Teaching Assistant, China Three Gorges University

(2)October 2002 to January 2007, Lecturer, China Three Gorges University

(3)October 2009 to April 2011, Associate Professor, China Three Gorges University

(4)May 2011 - now, Professor, China Three Gorges University

3. Research Directions:

(1) Hydraulic Structure Engineering

(2) Multi-field Coupling of Geotechnical Engineering

(3) Computational Fluid Mechanics

4． Published Papers(since 2011):

[1]Tong FG, Jing L. Tian B, A Water Retention Curve Model for the Simulation of Coupled Thermo-Hydro- Mechanical Processes in Geological Porous Media, Transport in Porous Media, 2012

[2]Tong FG, Auli Niemi, Zhibing. Yang, A Numerical Model of Tracer Transport in a Non-isothermal Two-Phase Flow System for CO2 Geological Storage Characterization, Transport in Porous Media, 2013

5. Published Books(since 2011):

(1) Fuguo Tong, Numerical modeling of coupled thermo-hydro-mechanical processes in geological porous media, Royal Institute of Technology, 2010

6. Research Projects(since 2011)

(1)2013-2016, Mechanism Research of the Landslide Caused By Rainfall Based on Multiphase Flow and Multifield Coupling, Natural Science Foundation of China

(2)2011-2013, Geomechanics and Disaster-causing Mechanism Research of the Landslide Caused by Intense Fall, Major Project of the Ministry of Education of China

(3)2010-2013, A Multiple space and time scale approach for the quantification of deep

saline formations for CO2 storage, European Commission Fund

Prof. Wang Congfeng

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Faculty :College of Hydraulic & Environmental Engineering

Job Title : Professor

1. Education:

(1)September 1992-June 1996, Bachelor's Degree, Gezhouba Institute of Hydroelectric Engineering

(2)September 2000 - July 2003, Master's Degee, Wuhan University

(3)September 2003 - December2005, Doctor's Degree, Wuhan University

2. Professional Experiences：

June 1996 - now: Teacher, China Three Gorges University

3. Research Directions:

(1) Ecological Water Conservancy

(2) Fish Passage Structure and Monitoring

4. Published Papers(since 2011):

[1]Hydro-acoustic Inverstigation and Assessment on Fishes in the Near Downstream of Gezhouba Dam, Resources and Environment in the Yangtza Basin, 2014

[2]Fish Assemblages under Different Running Status of the No.1 Ship Lock of the Gezhouba Dam, Journal of Hydroecology, 2014

[3]Tagging Techniques for Release and Enhancement of Fish in Beipan River Basin, Chinese Journal of Fisheries, 2014

[4]Comparative Study of Burst Swimming Speed of Black Carp, Grass Carp, Silver Carp and Bighead Carp in Songhuajiang River Basin, Ecological Science, 2014

[5]Comparative Study of Swimming Capability of the Typical Fish from Songhua River Basin, Journal of China Three Gorges University (Natural Sciences), 2014

[6]Study on Burst Swimming Speeds of Two Typical Releasing Fish from Beipan River, South China Fisheries Science, 2014

[7]Numerical Simulation of Hydraulic Characteristics of Fishway in Xinglong Hydro-junction Project, Advances in Science and Technology of Water Resources, 2013

[8]Study on Numerical Simulation of Hydraulic Characteristics of Transverse Diaphragm Plate Fishway, Water Resources and Power, 2012

5. Published Books (since 2011):

Quality Management and Control of Water Conservancy and Hydropower Engineering, 2011

6. Main Research Projects(since 2011):

(1)February 2012-December 2012, Fish Pass Capacity and Its Improvement Measures of Mid and Low Head Hydro-junction Ship Lock, National Funds for Public Benefits

(2)January 2014-December 2016， Water Environment Analysis of Three Gorges Reservoir Region and Its Tributaries, National Science and Technology Major Project

(3)January 2013-December 2015, Medium and Long Term Research of Discharge Objects of Fish Breeding Discharge Station on Beipanjiang River of Guizhou Province, Horizontal Project

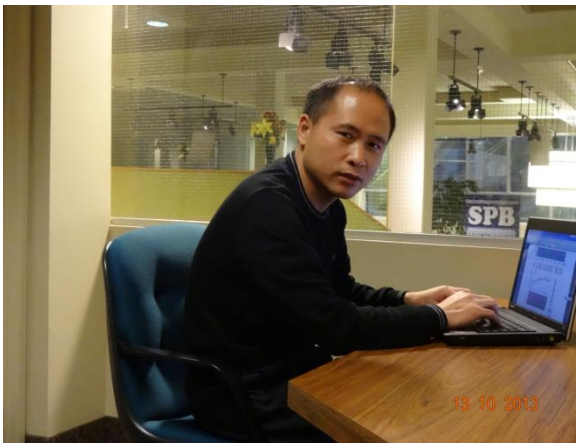
(4)January 2013-December 2014, Construction and Research of the Discharged Flow Online Monitoring System of Beipanjiang Dongjing Hydropower Station, Horizontal Project

(5)January 2014-December 2016, Construction and Research of the Discharged Flow Online Monitoring System of Mamaya Level 1 Hydropower Station, Horizontal Project

7. Honors and Awards(since 2011):

2006,Temperature Field of Closure of Arch Dam and Temperature Controlling Optimization Theory and Pract

Prof. Xiao Shangbin



Date of Birth: September 1970

E-mail: shangbinx@163.com

Faculty: College of Hydraulic & Environmental Engineering

Job Title: Professor

1. Education:

(1) September 1989-July 1993, bachelor's degree of Mineral Resource Prospecting and Exploration, China University of Petroleum (East China)

(2) September 1996 - March 1999, master's degree of Mineralogy, Petrology and Mineral Deposits, China University of Petroleum (East China)

(3) September 2001- July 2004, doctor's degree of Marine Geology, Institute of Oceanology, Chinese Academy of Sciences

(4) September 2013- July 2014, research of Environmental Sciences, visiting scholar of Bryant University, USA

2. Professional Experiences：

July 1993- August 2001, Teaching Assistant, Lecturer, China University of Petroleum (East China)

September 2004 - June 2006, Post-doctoral Research, South China Sea Institute of Oceanology, Chinese Academy of Sciences

June 2006- now, Professor, China Three Gorges University

September 2008-June 2010, Post-doctoral Research, Institute of Earth Environment, Chinese Academy of Sciences

3. Research Directions:

(1)Environmental Sciences

(2)Sedimentology

4. Main Published Papers (since 2011):

[1] Methane formation and consumption processes in Xiangxi Bay of the Three Gorges Reservoir. Sci. Rep. 4. 2014. (SCI)

[2] Phosphorus Fractions and Its Summer Release Flux from Sediment in the China's Three Gorges Reservoir. Journal of Environmental Informatics, 2014. (SCI)

[3] Detecting Sedimentary Cycles Using Autocorrelation of Grain Size. Scientific Reports 3; doi:10.1038/srep01653.(SCI)

[4] Temporal Variation of Methane Flux from Xiangxi Bay of the Three Gorges Reservoir. Scientific Reports 3, doi:10.1038/srep02500. 2013. (SCI)

[5] Diel and Seasonal Variation of Methane and Carbon Dioxide Fluxes at Site Guojiaba, the Three Gorges Reservoir. Journal of Environmental Sciences. 2013. (SCI)

[6] Gas Transfer Velocities of Methane and Carbon Dioxide in a Subtropical Shallow Pond. Tellus B 66, 23795, http://dx.doi.org/23710.23402/tellusb.v23766.23795. 2014. (SCI)

5. Major Projects(since 2011) :

[1] 2015-2016, Generation Mechanism of Methane and Research Utilization of Resources in Qianshuitang Reservoir of Hubei Province, Natural Science Foundation of Hubei Province

[2] 2013-2016, Mechanism Research of Carbon Emission in the Three Gorges Reservoir Region, Natural Science Foundation of China

[3] 2012, Sequence and Evolution of 4th Strata of Wuhan Urban Agglomeration, Horizontal Project

[4] 2009-2012, Research and Appraisal of Pollution Source in Reservoir Region and Evaluation Research of Hydrodynamics, Special Project of Water Resources

6. Honors and Awards (since 2011):

K. C. Wong Post-doctoral Reward Fund of Chinese Academy of Sciences, 2004

Prof. Zheng Xiazhong

Date of Birth: November 1963

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Phone: 07176392308

Faculty: College of Hydraulic & Environmental Engineering

Job Title: Professor

1. Education:

(1) October 1982 - June 1986, undergraduate in Department of Physics, Central China Normal University

(2) September 2000 - June 2002, master in management science and engineering, Business School, Wuhan University

(3) March 2009- December 2011, PhD. candidate in Management Science and Engineering Risk and Emergency Management, School of Management, Wuhan University of Technology

2. Professional Experiences：

(1) June 1986 to May 1996, Gezhouba Institute of Hydroelectric Engineering, teacher

(2) May 1996 to September 2000, Wuhan University of Hydraulic & Electric Engineering (Yichang), teacher

(3) September 2000 to now, China Three Gorges University, teacher

3. Research Directions:

(1) Hydroelectric Engineering Construction Management

(2) Hydroelectric Engineering Security Management

(3) Information Management

4. Main Published Papers (since 2011):

[1] Research on Optimization of Safety Management Organization Structure of Construction Enterprises Based on Order Degree Evaluation, China Safety Science Journal, 2013

[2] Application of Safety Culture Maturity Model in Construction Enterprises, China Safety Science Journal, 2011

[3] Safety Assessment Method for Hydropower Construction Based on Rough Set, China Safety Science Journal, 2011

[4] Analysis on the Constituent Elements of Emergency Execution Based on Hydropower Project, Journal of Safety Science and Technology, 2011

[5] SEM Model of Hydropower High-risk Operation on Affecting Factors, Journal of Safety Science and Technology, 2014

[6] Safety Entropy Evaluation of Hydropower Construction Based on Euclid, China Safety Science Journal, 2014

[7] Research on Dynamic Coordination Mechanism of Concession Price and Concession Period in BOT Project, Construction Economics, 2014

5. Major Research Projects (since 2011):

[1] 2014, Reversion of Technical Specification for Safety of Installation of Mechanical and Electrical Equipment of Hydraulic and Hydroelectric Engineering, Ministry of Water Resources

[2] 2014, Paradigm research on network behavior of accident development in hydropower construction, Natural Science Foundation of China

[3] 2013, Management system specially on safety facilities acceptance of hydraulic construction project, Ministry of Water Resources

[4] 2012, Technical code of safety and protection for water conservancy construction engineering, Ministry of Water Resources

[5] 2011, Inspection Standards of Safety Production and Supervision for Hydraulic Construction Operation, Ministry of Water Resources

[6] 2012, Evaluation Research on safety production for hydraulic engineering, Ministry of Water Resources

[7] 2014, Construction engineering of fish container system in level one hydropower station of Mama cliff, Beipan River, Guizhou, Horizontal large project

6. Awards and Honors (since 2011):

(1) 2011, Information research on general information management for construction enterprise (Provincial Third Prize)

(2) 2013, Major accidents control and key technologies of emergency rescue for extra large construction of hydraulic engineering (Provincial first prize)

(3) 2013, Research and application on safety production and key technologies for emergency of extra large hydraulic and hydropower engineering (Provincial second prize)Profiles of Doctoral Supervisors of

Prof. Shi Xiaotao

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Faculty: College of Hydraulic & Environmental Engineering
Job Title: Professor

Director of Technology and Research Centre for Fish Passage of China Three Gorges University. Dr. Shi is Ecological Council Member of Hubei Province, academic pace-setter of China Three Gorges University, top-notch young talent of China Three Gorges University, New Century Three-tier talent of Hubei Province and Young Talent of Morning Light Program of Hubei Province. Dr. Shi has great experiences in fish behavior and fishway design with extensive international collaboration. His research aim is to develop fish passage technique, with emphasis on fish behavior and hydraulics, his team cover technology for fish passing over dam, fish behavioral ecology, fish-passing facilities design, hydraulics, computer and research on sound, light and electricity.

On the basis of Hydraulic Engineering, Hydrology and Water Resources, Ecology, Environment Engineering, Computer Science, and Statistics etc., Technology and Research Centre for Fish Passage of China Three Gorges University aims to provide supports for sustainable development of water resources and hydropower. In demand of sustainable development of hydropower worldwide, we are striving to become the research, development and outreach centre as well as the base of training for fishway for China, covering the area from southwest China to southeast Asia, focusing on fish behavior-hydraulics -river connectivity restoration, The main research topics include:

1.Analysis on environment features of specific fish behavior, selection of characteristic index of fish behavior, experiment and method of fish behavior observation, behavior ecology, swimming ability and establishment of standard data base for 3-dimensional morphology etc.

2. Build the autonomous swimming ability testing system of fish and scientifically quantify the swimming ability of fish;

3. Design the fishway facilities according to the ecological habits of fish and features of dam project and put forward the best fishway interior hydraulic design method coupling fish behavior features and hydraulic design and method for site selection of fishway entrance;

4. Exploring and verifying the method for fish passing over the dam both theoretically and practically through fish collection and transportation system, fish lift, combined-type fishway, culvert fishway, turbine, spillway, natural bypass and fish guidance system.

5. Establish the assessment indicator system and evaluation methods for fish passage, develop the fish passage assessment and question-solved technology ;

6. Discover the flight response mechanism towards water flow, sound, light, air curtain and develop behavior-oriented technology of fish;

7. Develop emulation technique of virtual fish group passing over dam and establish design of facilities for fish passing over dam and related assessment methods.

Prof. Li Xianshan

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Telephone： 0717-6392631

Faculty: College of Electrical Engineering & New Energy

Job Title: Professor

1. Education:

September, 1983--July, 1987: Huazhong Institute of Technology, Bachelor of Power System and Its Automation

September, 1987--January, 1990: Beijing Graduate Division of North China Electrical Power Institute, Master of Power System and Its Automation

February, 2001-- December, 2003: Blaise Pascal University, France, PhD of Electronics and Systems

2. Professional Experiences：

March, 1990--July, 1996: worked in Gezhouba Hydropower Engineering College

July, 1996--June, 2000: worked in Wuhan Hydraulic & Electric University at Yichang

July, 2000—now, January, 2000 to now: worked in China Three Gorges University

3. Research Directions:

Operation and Control of Micro-grid

Operation and Control of Power Systems

Simulation of Hydropower Plant

4. Published Papers (since 2011):

[1] YANG Fuyu, LI Xianshan HU Wenbin, Research and Development of Hydropower Station Relay Protection Visualization Automatic Setting Calculation Software, China Water Power & Electrification, No.6, Jun.. 2013.

[2] LI Xianshan, WANG Zhufeng, WANG Xiaojian, YU Ming, Research on the Protection Setting and Coordination for Complex Auxiliary Power Supply of Hydropower Station, Hydropower Automation and Dam Monitoring, Vol. 35, No. 6, Dec. 20, 2011.

[3] LI Xianshan, XU Hao, DU Yulong, Maximum Power Tracking of Wind Power Generation System Using the Combination of Tip Speed Ratio Method and Climbing Search Method, Power System Protection and Control, Vol. 43 No. 13, Jul. 1, 2015.

[4] TIAN Hui-wen, LI Xian-shan, CHEN Tie, TAN Si, Comprehensive control strategy of hybrid energy storage-based photovoltaic island microgrid, Power System Protection and Control, Vol. 42 No. 19, Oct. 1, 2014.

5. Research Projects (since 2011)

(1) 2013-2016, LI Xianshan, LIU Pei, HUANG Jingguang, CHEN Tie, Studies of Load Supporting Strategy for Islanded Micro-grid against Blackouts, Surface Project of National Natural Science Foundation of China.

(2) 2012-2015, LI Xianshan, HU Xiangyong, ZHOU Yunhai, Optimization Technology for the Combined Operation of Large Scale Wind Power and Pumped Storage Power Station in Power Grid, 863 subprojects.

(3) 2011, LI Xianshan, CHEN Tie, ZHANG Binqiao, WANG Changlin, LI Wenwu, Project of

LONGTAN Hydropower Station Training Simulator, LongTan Hydropower Development Co., Ltd.

(4) 2011, LI Xianshan, ZHONG Hao, CHEN Tie, Protection Coordination Study of China Three Gorges Hydropower Plant, China Yangtze Power Co., Ltd.

6. Honors and Awards (since 2011):

(1) National excellent teacher

(2) Third Prize of Award of Science Technology of Hydraulic Power Generation

(3) First Prize of Provincial Excellent Teaching Results, 3items.