



International Forum on Water Security & Sustainability  
水安全与可持续发展国际高端论坛

# SPEAKERS

## 发言人简介

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## **Kumud Acharya**

Dr. Kumud Acharya serves as the President of the Desert Research Institute (DRI). DRI is an environmental research institute within Nevada System of Higher Education specializing in hydrology, atmospheric sciences and earth and ecosystem sciences with over 500 faculty, postdocs and staffs. Prior to being the President, Dr. Acharya was the Executive Director of the Division of Hydrologic Sciences at DRI.

Dr. Acharya established the Ecological Engineering group at DRI, which researches the ecological health of rivers, lakes, and wetlands and the effects of climate change on aquatic systems. He has participated in international research on water quality and management in China, Japan, Nepal, the United Arab Emirates, Indonesia, and Thailand. Dr. Acharya has published more than 100 peer-reviewed papers and served as first-author on many publications focused on water and ecosystem health. In addition to his research, he has also served as associate editor of the Journal of Water Resources Research and associate editor of the Journal of the American Water Resources Association.

Dr. Acharya also served as the Chief Technology Officer for WaterStart from its inception in Nov 2013 to June 2017. WaterStart is a joint venture of academic, public, and private sector institutions based in Las Vegas, Nevada. WaterStart brings together global leaders in water technology innovations and leverages the water resource expertise in Nevada to improve water conservation and management.

库穆德·阿查里亚 (Kumud Acharya) 博士是沙漠研究所 (DRI) 的主席。DRI 是内华达州高等教育系统内的一个环境研究机构，专门研究水文学、大气科学、地球和生态系统科学，拥有 500 多名教员、博士后和工作人员。在担任院长之前，阿查里亚博士是 DRI 水文科学部的执行主任。

阿查里亚博士在 DRI 建立了生态工程小组，研究河流、湖泊和湿地的生态健康以及气候变化对水生系统的影响。他曾在中国、日本、尼泊尔、阿拉伯联合酋长国、印度尼西亚和泰国参与水质和管理方面的国际研究。Acharya 博士已经发表了 100 多篇同行评审论文，并以第一作者身份发表了许多关于水和生态系统健康的出版物。除了研究之外，他还担任《水资源研究杂志》的副主编和《美国水资源协会杂志》的副主编。

从 2013 年 11 月 WaterStart 成立到 2017 年 6 月，阿查里亚博士还担任了

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WaterStart 的首席技术官。WaterStart 是一家由学术机构、公共机构和私营机构组成的合资企业，总部位于内华达州拉斯维加斯。WaterStart 汇集了全球水技术创新的领军人物，并在内华达州利用水资源专业意见来提升水资源保护和管理水平。

## **Da Chen (陈达)**

Prof. Da Chen, a doctoral supervisor of Hohai University, is one of the young and middle-aged leading talents in science and technology innovation in the transportation industry. He is enjoying the special allowance of the State Council. He graduated from Harbour and Waterway Engineering of Hohai University in 1999, received his master's and doctor's degrees in University of Sciences and Technologies Lille, FRA in 2002 and 2006 respectively. Now he is the head of Department of Strategic Programming and Discipline Development, the vice president of the Harbour Engineering Branch of China Civil Engineering Society, the director of China Ports & Harbours Association, also the vice director of Development Committee of Jiangsu Hydraulic Engineering Society. He is mainly engaged in teaching and scientific research in the fields of harbour, waterway, coastal and offshore engineering. His major research fields are offshore engineering structure and its durability. He has made innovative achievements in the basic theories and technical methods of offshore engineering structure assessment and restoration. He has presided over more than 20 funds and government sponsored researches, published more than 66 high-quality SCI papers in various journals, including 23 in the first district. He also published 2 monographs, owned 33 Chinese invention patents and 2 US invention patents, registered 8 software copyrights. He has participated in the compilation of 6 standards or specifications, won 6 scientific research awards at or above the provincial-ministerial level. He has been selected as the young and middle-aged scientific and technological innovation leader of the “Qinglan Project” of Jiangsu Province, the young and middle-aged academic technology leader of the “333 Project” of Jiangsu Province, the Jiangsu Outstanding Youth Fund, the innovative talent team of “Six Talent Summit” of Jiangsu Province and other talent programs.

陈达，河海大学教授、博导，交通运输行业中青年科技创新领军人才，享受国务院政府特殊津贴。1999 年毕业于河海大学港口及航道工程专业，2002 年和 2006 年分别获法国里尔科技大学土木工程硕士和博士学位。现任河海大学发展规划与学科建设处处长，兼任中国土木工程学会港口工程分会副理事长、中国港

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口协会理事、江苏省水利学会发展工作委员会副主任等职务。主要从事港口、航道、海岸及近海工程领域的教学和科研工作，主要研究方向为近海工程结构及其耐久性，在近海工程结构评估与修复的基础理论和技术方法方面取得创新成果。主持基金和纵向项目 20 余项。发表高质量 SCI 论文 66 篇（一区 23 篇），出版专著 2 部，获中国发明专利 33 项、美国发明专利 2 项，登记软件著作权 8 项，主持和参编标准规范 6 部，获省部级以上科研奖励 6 项。先后入选江苏省“333 工程”中青年学术技术带头人、江苏省青蓝工程中青年学术带头人、江苏省杰出青年基金、江苏省“六大人才高峰”创新人才团队等人才计划。

### **Ji Chen (陈骥)**

Dr. Ji Chen, Associate Professor of the Department of Civil Engineering, Hong Kong University, graduating with a Bachelor's Degree and a Master's Degree from the Department of Water Conservancy, Tsinghua University, graduating with a Doctor's Degree from the University of Illinois at Urbana-Champaign, and having obtained the Certificate of Postdoctor from University of California, San Diego. Associate Professor Ji Chen has ever served as Secretary to International Association for Hydraulic Research (IAHR) Hong Kong Branch, and successively served as a member of the Editorial Board of *Advances in Geosciences*, *Hydrological Volume*, and Associate Editor of the periodicals such as the *Water Resources Research*, *Stochastic Environmental Research and Risk Assessment*, and *Journal of Hydro-Environment Research*. He has provided instructions for the graduation of six doctors and issued more than 70 SCI papers. He deals with the research of land surface process, atmospheric hydrology, watershed hydrology, water resources, water disasters (torrential floods, floods and droughts), application of remote sensing information, and climatic changes.

陈骥, 博士, 香港大学土木工程系副教授。清华大学水利系学士和硕士毕业, 美国 University of Illinois at Urbana-Champaign 博士毕业, 美国 University of California, San Diego 博士后。陈骥副教授曾担任国际水力学研究学会 (IAHR) 香港分会秘书, 并先后担任 *Advances in Geosciences*, *Hydrological Volume* 编委会成员, *Water Resources Research*、*Stochastic Environmental Research and Risk Assessment* 及 *Journal of Hydro-Environment Research* 等期刊的 Associate Editor, 已指导毕业 6 名博士, 发表 SCI 论文 70 余篇。研究领域包括: 陆面过程、大气水文、流域水文、水资源研究、水灾害研究 (山洪、洪水及干旱)、遥感信息应



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用及气候变化研究。

## **Jie Chen (陈杰)**

Jie Chen, male, Han ethnic group, born in Ningxiang, Hunan Province, born in 1981, a Member of the Communist Party of China, incumbent Professor and Doctoral Supervisor of Wuhan University. Jie Chen obtained the Bachelor's Degree in Agriculture and the Master's Degree in Science from the Northwest A&F University in 2005 and 2008 respectively, obtained the Doctor's Degree in Engineering from Université du Québec in 2011, developed postdoctoral research at Université du Québec in 2011 to 2015, and was employed as Professor of Wuhan University in January 2016. He won the golden medal of the Governor General's Awards in 2011, and the Annual Best Doctoral Dissertation of Université du Québec in 2012. He is mainly engaged in the research of climatic changes and hydrological and water resources, and obtained a series of achievements in researching the response of watershed runoff to climatic changes and its uncertainty. On the basis of developing single-site and multi-site random weather generators, he has created the statistical downscaling model, which has been widely applied in China, the USA, the UK, etc. He has brought forward a method for correction of deviations in ensemble meteorological forecast, which has improved the precision and extended the period of runoff forecast, and built the ensemble forecast system of runoff in the basin. He has brought forward a method for quantifying the uncertainty in the response of watershed runoff to climatic changes, lowering the uncertainty of watershed runoff prediction and forecast. Also, he has issued 46 SCI papers (including 30 papers as the first or corresponding author), which have been cited for more than 400 times by SCIE, with a single paper cited by more than 130 times at the most; 2 papers have been cited in the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC), and 1 paper has been incorporated into ESI Highly Cited Papers. He is the subeditor of SCI periodical Hydrology Research. He is in charge of the land surface projects supported by the National Natural Science Foundation of China, the international (regional) cooperative research and communication projects supported by National Natural Science Foundation of China, and the specific topic of the national key research and development programs.

陈杰，男，汉族，湖南宁乡人，1981年出生，中国共产党党员，现为武汉大学教授，博士生导师。2005年、2008年分别获西北农林科技大学农学学士和理

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学硕士学位，2011 年获加拿大魁北克大学工学博士学位，2011-2015 年在魁北克大学开展博士后研究，2016 年 1 月被聘为武汉大学教授。2011 年获加拿大总督学术金牌，2012 年获魁北克大学年度最佳博士论文。 主要从事气候变化与水文水资源研究，在流域径流对气候变化的响应及其不确定性方面取得了一系列研究成果。在发展单站点与多站点随机天气发生器的基础上，创建了统计降尺度模型，在中国、美国、英国等得到了广泛应用；提出了气象集合预报偏差校正方法，提高了径流预报的精度并延长了预见期，构建了流域径流集合预报系统；提出了流域径流对气候变化响应不确定性的量化方法，降低了流域径流预测预报的不确定性。已发表 SCI 论文 46 篇（第一或通讯作者 30 篇），SCIE 他引 400 余次，单篇最高他引 130 余次，2 篇论文被政府间气候变化专门委员会（IPCC）第五次评估报告引用，1 篇论文入选 ESI 高被引论文。担任 SCI 期刊《Hydrology Research》副主编。主持国家自然科学基金面上项目、国家自然科学基金国际（地区）合作研究与交流项目和国家重点研发计划专题。

### **Qiuwen Chen (陈求稳)**

Prof. Qiuwen Chen has been long engaged in the research on eco-environmental effects of hydropower development. He has published more than 360 research papers in peer-reviewed journals, including *National Science Review*, *Nature Reviews –Earth & Environment*. He has been issued more than 40 international innovation patents. For his outstanding achievements, he is the winner of the 20<sup>th</sup> IAHR Arthur Thomas Ippen Award, and the 2020 Xplorer Prize. He has received the National Science Fund for Distinguished Young Scholars, and Ten-Thousands Talents Program.

陈求稳博士，研究员。长期从事生态水力学研究，在 *National Science Review*、*Nature Reviews Earth & Environment* 等期刊发表论文 360 余篇（SCI 检索 160 余篇），出版专著 3 部，获授权国内外发明专利 45 项；荣获国家科技进步二等奖 1 项、省部级科技特等奖 1 项、一等奖 6 项、“创新团队奖” 1 项、第 20 届国际水利与环境工程学会（IAHR）Arthur Thomas Ippen Award、第二届“科学探索奖”。入选国家杰出青年科学基金、国家“万人计划”科技创新领军人才、中国科学院“百人计划”。

### **Xiaohong Chen (陈晓宏)**

Dr. Xiaohong Chen is a Professor and the Director of Center for Water Resources

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& Environment, at Sun Yat-sen University, Guangzhou, China. He is the President-Elect of the International Commission of Water Quality in the International Association of Hydrological Sciences (ICWQ-IAHS). Vice-president of the Chinese Commission for IAHS. Vice president of Water Resources Society of Guangdong Province, China. He has fulfilled about 300 programs with funds over US\$ 25 million, including 4 Key Programs of National Science Foundation of China, e.g., “Quantitative research on variability of hydrological features and the corresponding water resources response in the area of Pearl River Delta”, and “Comprehensive planning of water resources for Guangdong Province”, Key Program of Guangdong Province issued by Water Resources Department of Guangdong Province. He is now in charge of several key research programs with total funds over US\$ 4 million, including a National Key R&D Program of China, “Multi-objective Regulation of Water Resources in the Pearl River Basin”. He has published 11 books and more than 500 papers in Chinese and English journals. He obtained 11 awards including the first prize of science and technology progress by Ministry of Education of China in 2012 and the first prize of science and technology progress by Guangdong Province in 2017. He convened the Xiangshan Science Conference of No. 494 as one of the 4 executive chairmen.

陈晓宏博士，教授，中国广州中山大学水资源与环境研究中心主任，国际水文科学协会(ICWQ-IAHS)国际水质委员会当选主席，中国国际宇航学会副主席，中国广东省水利学会副理事长。陈教授完成项目约 300 个，项目资金逾 2500 万美元，其中包括 4 项国家自然科学基金重点项目，如“珠江三角洲地区水文特征变异性定量研究及相应水资源响应”，以及广东省水利厅重点项目《广东省水资源综合规划》。陈教授目前主持多项重点研究项目，总资金逾 400 万美元，其中包括国家重点研发项目“珠江流域水资源多目标调控”，在中文和英文期刊上发表了 11 本书和 500 多篇论文，2012 年获教育部科技进步一等奖、2017 年获广东省科技进步一等奖等 11 项奖项。作为四位常务主席之一，陈教授发起了第 494 届香山科学大会。

## **Changchun Cheng (成长春)**

Changchun Cheng, born in Sheyang, Jiangsu Province, is a doctor of management, professor, doctoral supervisor. He is a former counselor of Jiangsu Provincial People's Government, a member of Jiangsu Provincial Political Consultative Conference, secretary of Party Committee of Nantong University and Yancheng Normal College.

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He is also the director of Nantong University Base of Jiangsu Province Socialism with Chinese Characteristics Research Center, the leader of Jiangsu Province Key Discipline "Marxist Theory" in the 13th Five-Year Plan, and the first director of Jiangsu Rural Revitalization Think Tank Research Institute. He is mainly engaged in the research of Marxist theory, regional economy, and river basin economic development and management. In recent years, he has presided over more than 10 major projects of the Ministry of Education's philosophy and social science research and the National Social Science Foundation. He published more than 100 papers in journals such as China Social Science, Seeking Truth, People's Daily, and China Today. More than 50 papers have been reprinted or indexed in Xinhua Digest, China Social Science Digest, Academic Digest of Liberal Arts in Higher Education, and China Social Science Excellence, etc. He is the author of Coordinated and Balanced Development: New Strategy of Yangtze River Economic Belt Development and Jiangsu Exploration (People's Publishing House), Winning the Future: Research on Core Competitiveness of Universities (People's Publishing House), Jiangsu Coastal Port, Industry and Town Linkage Development Research (Science Publishing House), etc.. He won the first and second prizes of Jiangsu Province's excellent achievements in philosophy and social science, and more than 10 consulting research reports were approved by the Party and State leaders and the main leaders of Jiangsu Provincial Party Committee and Government. He is appointed as an expert in the National Social Science Fund Project Communication Appraisal Expert Database, a national high-end think tank "China Center for International Economic Exchange" expert database. He is an executive director of the China Regional Economic Association, a research expert on the contact points of national ministries and commissions such as the National Development and Reform Commission, the Ministry of Industry and Information Technology, and the Counselor Office of the State Council. He is the first batch of decision-making consultants of the Taizhou City Decision-making Advisory Committee and was invited as an expert in the large-scale special interview event of the Publicity Department of the Communist Party of China in 2018 to comment on major issues in the development of the Yangtze River Economic Belt.

成长春，江苏射阳人，管理学博士，教授，博士生导师，曾任江苏省人民政府参事，江苏省政协委员，南通大学、盐城师范学院党委书记，现为江苏省重点高端智库——江苏长江经济带研究院院长、首席专家，江苏省中国特色社会主义

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理论体系研究中心南通大学基地主任，“十三五”江苏省重点学科“马克思主义理论”学科带头人，江苏乡村振兴智库研究院首任院长。主要从事马克思主义理论、区域经济、流域经济开发与管理研究，近年来主持教育部哲学社会科学研究重大课题攻关项目、国家社科基金重点项目 10 余项，先后在《中国社会科学》《求是》《人民日报》《China Today》等期刊报纸发表论文百余篇，被《新华文摘》《中国社会科学文摘》《高等学校文科学术文摘》以及人大复印资料等全文转载或索引 50 余篇，著有《协调性均衡发展——长江经济带发展新战略与江苏探索》（人民出版社）、《赢得未来——高校核心竞争力研究》（人民出版社）、《江苏沿海港口、产业、城镇联动发展研究》（科学出版社）等，获江苏省哲学社会科学优秀成果一等奖、二等奖等奖项，10 余篇咨询研究报告得到党和国家领导人和江苏省委省政府主要领导批示。被聘为国家社科基金项目通讯鉴定专家库专家，国家高端智库“中国国际经济交流中心”专家库专家，中国区域经济学会常务理事，国家发改委、工信部、国务院参事室等国家部委联系点研究专家，泰州市决策咨询委员会首批决策咨询顾问，应邀作为中宣部 2018 年“大江奔流”大型专题采访活动随团专家对长江经济带发展的重大问题进行全程点评。

### **Xiaotao Cheng (程晓陶)**

Professor Cheng Xiaotao, former director of Research Department of Water Hazards and former vice chief engineer of the Institute of Water Resources and Hydropower Research (IWHR), has been a researcher at IWHR since 1985 and retired in 2015. He completed his Ph.D. at DPRI of Kyoto University in 2003. He is now a member of the expert team of the National Committee for Disaster Reduction, the Chief Editor of the Journal of Hydraulic Engineering (CHES, IWHR & CHINCOLD), the director of the Urban Water Management Committee of CHES and member of Flood Risk Management Committee of IAHR. His research interests lie in the area of flood control and flood risk management, ranging from strategy planning to emergency response.

程晓陶，京都大学工学博士，教授级高工，中国水利水电科学研究院原副总工程师，曾任防洪减灾研究所所长。现任《水利学报》主编，国家减灾委员会专家委员会委员，科技部防灾减灾总体专家组专家；中国水利学会城市水利专委会主任委员；中国城市规划学会城市安全与防灾规划学术委员会副主任委员；国际水利学会 IAHR 洪水风险管理委员会委员。研究领域涉及洪水风险管理与防汛应急响应、洪涝仿真技术、城市洪涝防治和水安全保障等。

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## **Johannes Cullmann**

Cullmann has joined the World Meteorological Organization (WMO) in 2015 as the Director of the Climate and Water Department. From 1 January 2020, he is the Director for Water and Cryosphere. In 1996 and 1998 he was scientific officer for the Max Planck Institutes' Working group Tropical Ecology based in Manaus, Brazil. He was leading integrated water resources management and river restoration programmes for the German Development Cooperation in Chile in 2000 and 2001.

Mr Cullmann served as scientific officer, teacher and science group co-leader in German universities from 2001 to 2007. He holds a Master in Hydrology, a Phd in Flood Forecasting as well as a Habilitation in Hydrology. The Ministry for Transportation and Infrastructure selected him for on the job training on public management, which he concluded with a Master in Public Management in 2012.

Cullmann was Director of the IHP/HWRP division (science and international cooperation) of the German Federal Institute of Hydrology from 2007 to 2015. He was involved in formulating the Institute's research strategy, delivering the first climate change impact analysis of German water-ways and took part in harmonising data for assessing hydrological futures for the Rhine river basin. He helped coordinating international water affairs within the German government and with international partners. From 2012 to 2014, he was President of the Intergovernmental Council of UNESCO's water programme. In this function he has been negotiating implementation plans for UNESCO with Governments and other UN Agencies. Mr Cullmann was the German representative in the Commission for the Hydrology of the Rhine River, one of the important features of European transboundary water cooperation. He has organised various water diplomacy related conferences and events for UNESCO and the German Foreign Office. Mr Cullmann coordinated German support for UNEP's water quality related activities and he is familiar with data sharing arrangements in support of creating political trust in disputed situations. He was the Hydrological Advisor of German Permanent Representatives to WMO from 2007 to 2015.

Johannes Cullmann 于 2015 年加入世界气象组织 (WMO)，担任气候与水部门负责人。2020 年 1 月 1 日起，担任水与冰冻圈部门负责人。1996 年和 1998 年，担任位于巴西玛瑙斯的马克斯·普朗克研究所热带生态学工作组的研究员；2000 年和 2001 年，在智利领导实施德国发展合作组织的综合水资源管理和河流恢复

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计划；2001 年至 2007 年，在德国大学担任研究员、教师以及科学小组联合负责人，拥有水文学硕士学位、洪水预测博士学位以及水文学资格认证。交通和基础设施部选派他参加公共管理在职培训，于 2012 年获得公共管理硕士学位。2007 年至 2015 年，库尔曼先生担任德国联邦水文研究所 IHP/HWRP 部门（科学与国际合作）负责人，参与制定了该研究所的研究战略，首次分析了气候变化对德国水道的影响，并参与了未来莱茵河流域水文评估数据的协调工作。他帮助德国政府协调内部之间以及与国际合作伙伴之间的国际水事务。2012 年至 2014 年，他担任教科文组织水计划政府间理事会主席，期间，他一直在与各国政府和其他联合国机构就教科文组织的实施计划进行协商谈判。

库尔曼先生是莱茵河水文委员会的德国代表，该委员会是欧洲跨界水合作的重要特征之一。他为教科文组织和德国外交部组织了各种与水外交有关的会议和活动。他在德国对联合国环境规划署水质相关活动的支持中起到了协调的作用，他熟知如何利用数据共享以支持在有争议的局势中建立政治互信。2007 年至 2015 年，他担任德国常驻世界气象组织代表的水文顾问。

### **Minjiang Deng (邓铭江)**

Deng Mingjiang, an expert on water resources and water conservancy projects in arid areas, from Korla, Xinjiang. He graduated from Xinjiang Agricultural University in 1982 and obtained his Ph.D. degree from Hohai University in 2007. He used to be the chief engineer of Xinjiang Ebe Construction Management Bureau and Water Resources Department for 18 years. He is currently the vice-chairman of Xinjiang Association for Science and Technology and deputy director of the Agricultural and Rural Committee of the CPPCC in the autonomous region. He has long adhered to the front line of engineering science and technology in the northwest frontier, and is a disciplined leader in the field of water resources research and water conservancy project in arid and semi-arid regions of China. He established a water cycle control theory and engineering technology system in arid areas, solved major technical problems in desert long-distance water transfer projects, created new technologies for horizontal karez underground reservoirs, and carried out large-scale ecological regulation research and innovative practices, and has long been committed to the research and development of cross-border rivers in the west. He has won 4 second prizes of National Prize for Progress in Science and Technology, the Xinjiang Science and Technology Advancement Award, He Liang Heli Science and Technology Innovation

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Award, and other 6 major awards. He also won 3 provincial and ministerial first prizes for scientific and technological progress, and published 7 monographs, and published more than 100 papers. He was elected as an academician of the Chinese Academy of Engineering in 2017.

邓铭江，干旱区水资源及水利工程专家，新疆库尔勒人。

1982年毕业于新疆农业大学，2007年获河海大学博士学位，曾任新疆额河建管局、水利厅总工程师18年，现任新疆科协副主席，自治区政协农业和农村委员会副主任。长期坚守西北边疆工程科技一线，是我国干旱半干旱地区水资源研究和水利工程领域的学科带头人。

建立了干旱区水循环调控理论与工程技术体系，解决了沙漠长距离调水工程中的重大技术难题，创建了横坎儿井地下水库新技术，开展大尺度生态调度研究与创新实践，长期致力于西部跨界河流研究与开发建设。

共获得国家科技进步二等奖4项、新疆科技进步特等奖、何梁何利科学与技术创新奖等6项主要奖励成果，还获得省部级科技进步一等奖3项，出版专著7部，发表论文百余篇。

2017年当选为中国工程院院士。

## **Yihui Ding (丁一汇)**

Ding Yihui (1938-), Academician of the Chinese Academy of Engineering, is a professor and special adviser on climate change of the China Meteorological Administration. Now he is the vice-chairman of the China Expert Panel on Climate Change. He was born in Anhui province. He once served as Director General of National Climate Change, CMA and co-chair of Working Group I of Intergovernmental Panel on Climate Change (IPCC).

Prof. Ding graduated from Department of Geophysics of Beijing University in 1963 and graduated from Graduate College, Chinese Academy of Science in 1967. He has been involved in atmospheric science and climate change as well as severe weather for long time, achieving important results. And he has participated in and led many China's key research projects. He has made outstanding contributions to both research and prediction of the Asian monsoon, heavy rainfalls in East Asian, typhoon genesis over the West-Pacific, the climate change in China, and development of regional



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climate models. He participated in and chaired the preparation of IPCC's First to the Fifth Assessment Reports as one of the world scientists who have made outstanding contribution to climate change studies.

In 1987 and 1995, he won the 3<sup>rd</sup> class and 2<sup>nd</sup> class State Natural Science Prize, respectively. In 2002, he won HLHI Science and Technology Progress Award. In 2003 and 2005, he received the 1<sup>st</sup> class and 2<sup>nd</sup> class State Science and Technology Progress Prize, respectively. In 2005, he received WMO Award for outstanding work in the field of climate prediction, climate change and monsoon climatology. He has been the advisor for over 30 Ph.D. students.

丁一汇，1938 年 7 月 18 日出生。中国工程院院士。国家气候中心研究员。1957-1963 年学习和毕业于北京大学地球物理系，1963-1967 年学习和毕业于中国科学院研究生院。先后任国家海洋局海洋环境预报中心副主任兼国家海洋预报总台台长，中国气象科学研究院副院长、研究员、博士生导师，中国科学院大学兼职教授，中国气象局国家气候中心主任；世界气象组织东亚季风研究委员会主席；政府间气候变化委员会（IPCC）第一工作组联合主席，世界气候研究计划（WCRP）联合科学委员会执行理事，中国环境和发展国际委员会委员。2001 年至今，担任中国气象局气候变化特别顾问，国家气候变化专家委员会副主任，国家环境委员会委员，中国气象学会气象学报主编与英国皇家气象学会国际气候杂志编委。北京陶诗言气象发展基金会理事。

曾先后获得国家级奖四项，部委级奖十一项，其中：“中国卫星气象学研究”，1987 年获国家自然科学奖三等奖；“东亚季风研究”，1995 年获国家自然科学奖二等奖；2003 年“中国短期气候预测系统的研究”获国家科技进步一等奖；2005 年获“全球变化丛书”国家科技进步二等奖；2002 年获何梁何利科学进步奖；2005 年获世界气象组织（WMO）杰出工作和成就奖。“中国暴雨的研究”，1992 年获中国科学院自然科学奖一等奖。

### **Qingyun Duan (段青云)**

Qingyun Duan received his Ph.D. in hydrology from the University of Arizona in 1991. He is currently a Chair Professor in the College of Hydrology & Water Resources at Hohai University in China. His research interests include hydrology and water resources, hydrological modeling and uncertainty quantification, and hydrometeorological ensemble forecasting. He has authored or co-authored more than

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200 peer reviewed articles and edited 4 books in hydrology and water resources. Dr. Duan has been active in many international scientific activities, including serving as the co-leader of the Model Parameter Estimation Experiment (MOPEX) and a member of the scientific steering committees of the Global Energy and Water Exchanges (GEWEX) Project and the Hydrological Ensemble Prediction Experiment (HEPEX). He was or is serving as an editor or editorial board member for numerous scientific journals, including Reviews of Geophysics, Bulletin of American Meteorological Society and Water Resources Research. He was the lead Editor-in-Chief of a Springer major reference book “Handbook of Hydrometeorological Ensemble Forecasting”. Dr. Duan is a Fellow of American Geophysical Union and American Meteorological Society.

段青云，1991年毕业于美国亚利桑那大学，获水文学博士学位。现任中国河海大学水文与水资源学院讲座教授。主要研究方向为水文与水资源、水文模型与不确定性量化、水文气象综合预报。他撰写或合著了 200 多篇同行评阅文章，编辑了 4 本水文和水资源方面的书籍。段博士活跃于许多国际科学活动，包括担任模型参数估计实验(MOPEX)的联合负责人，全球能源和水交换项目(GEWEX)和水文集成预测实验(HEPEX)的科学指导委员会成员。他曾或现在担任众多科学期刊的编辑或编委会成员，包括《地球物理学评论》、《美国气象学会公报》和《水资源研究》。段青云博士还是施普林格主要参考书《水文气象综合预报手册》的主编及美国地球物理联合会和美国气象学会会员。

### **Amgad Elmahdi**

Dr Amgad Elmahdi – Director of MENA Region-IWMI, is a Regional Water Solutions Specialist. He has over 25 years of working experience in the fields of hydrology, natural resource management, water accounting and assessment and water information management in operational, research, and academic institutions in many countries. His experiences involved providing evidence-based science and low-cost solutions to sustainably manage water and land resources for water and food security, people’s livelihoods and the environment.

He is also a recognized International Water and Natural Resources Management Expert and the Australian representative for several international agencies- such as ICID- International Commission on Irrigation and Drainage. He has received several awards nationally and internationally for his Science Impact for Landscape Water

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modeling in Australia and Strategic Excellence Award for Partnership and Watersaving award-ICID. <https://www.linkedin.com/in/drelmahdi/>

**Amgad Elmahdi** 博士—国际水资源管理研究院(IWMI)中东和北非地区主任, 区域水资源解决方案专家。他在多个国家的运营机构、研究院及学术机构的水文学、自然资源管理、水核算和评估及水资源信息管理等领域拥有超过 25 年的工作经验。他的经历包括提供循证科学的低成本解决方案来可持续地管理水和土地资源, 以保障水和粮食安全、民生和环境。他是公认的国际水资源和自然资源管理专家, 并担任国际灌溉排水委员会(ICID)等多个国际机构的澳大利亚代表。他曾因其在澳大利亚景观水资源建模方面的科学影响力而获得多个国内和国际奖项, 并获得 ICID 颁发的战略合作卓越奖和节水奖。

### **Roger Falconer**

Roger Falconer is Emeritus Professor of Water and Environmental Engineering (former Professor of Water Management, 1997-2018) and Founding Director (1997-2015) of the Hydro-environmental Research Centre, in the School of Engineering, at Cardiff University, and currently Chair Professor at Hohai University and the Yangtze Institute for Conservation and Development. He was previously Professor of Water Engineering and Head of the Department of Civil Engineering, University of Bradford (1986-1997) and Lecturer in Hydraulic Engineering, University of Birmingham (1977-1986). He has been involved in a wide range of research projects on hydro-environmental modelling and his models have been used in over 100 Environmental Impact Assessment studies worldwide and provide one of the engines for the commercial two-dimensional model Flood Modeller (marketed by Jacobs). He has published over 450 papers in journals and conference proceedings, and has given over 40 keynote presentations at international conferences and 540 invited talks to societies and institutions worldwide on modelling flooding, water quality and sediment transport processes, as well as tidal and river energy and water security.

Roger is a Fellow of the Royal Academy of Engineering (RAEng), a Foreign Academician of the Chinese Academy of Engineering and a Fellow of the European Academy of Sciences. He is also an Honorary Member of the International Association for Hydro-Environment Engineering and Research (IAHR) and former President of IAHR (2011-2015). He has received many awards for his work including the Royal

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Academy of Engineering Silver Medal(1997) and the IAHR Ippen Award (1991). He regularly consults on flooding and environmental assessment impact studies around the world.

罗杰-法尔科纳 (Roger Falconer), 卡迪夫大学工程学院水资源与环境工程名誉教授 (原水管理教授, 1997-2018 年) 和水环境研究中心创始人 (1997-2015 年), 现为河海大学和长江保护与绿色发展研究院的讲席教授。曾任布拉德福德大学水工程教授、土木工程系主任 (1986-1997), 伯明翰大学水利工程讲师 (1977-1986)。参与了广泛的水环境建模研究项目, 模型已被用于全球 100 多项环境影响评估研究, 并为商业二维模型 Flood Modeller (由 Jacobs 销售) 提供了引擎之一。他在期刊发表论文和会议记录 450 多篇, 在国际会议上做了 40 多场主题报告, 应邀在世界各地的学会和机构做了 540 余场演讲, 内容涉及洪水建模、水质和沉积物输送过程, 以及潮汐和河流能源与水资源安全。

Roger 是英国皇家工程院 (RAEng) 院士、中国工程院外籍院士和欧洲科学院院士, 国际水利与环境工程学会 (IAHR) 荣誉会员和前主席 (2011-2015)。曾获众多奖项, 包括英国皇家工程院银奖 (1997 年), 国际水利与环境工程协会伊本奖 (1991 年)。他定期为世界各地的洪水和环境评估影响研究项目提供咨询。

### **Lian Feng (冯炼)**

Dr. Lian Feng is an assistant professor with the South university of science and technology, China. Dr. Feng's research interests include remote sensing of the inland and coastal water environments, and how these environments are influenced by climate variability and human activities. He has been the PI/Co-PI of >10 funded projects and published >80 peer-reviewed papers, more than half of which were appeared in TOP journals, such as Nature, Remote Sensing of Environment, Journal of Geophysical Research, and Environmental Science & Technology. His publications have been cited by >2800 times by Google Scholar (h-index: 28). His research has been highlighted by many domestic and international media and agencies, such as the CCTV of China, NASA, NOAA, IOCCG, etc., and successfully applied in relevant business departments.

冯炼, 南方科技大学环境科学与工程学院助理教授, 博士生导师, 主要研究方向为气候变化和人类活动影响下的海岸带与内陆水环境遥感研究。曾经获得国家万人计划青年拔尖人才, 广东省珠江青年学者等荣誉。目前已经发表 SCI 论文 80 多篇, 其中一半以上刊登在 Nature, Remote Sensing of Environment, Journal of

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Geophysical Research, Environmental Science & Technology 等期刊, Google Scholar 引用>2800 次 (H-index: 28)。研究工作被中央电视台、美国 NASA、国际海洋水色协调工作组 (IOCCG) 等报道, 并在相关业务部门成功应用。

### **Peter Goodwin**

Peter Goodwin is the president of the University of Maryland Center for Environmental Science (UMCES) - Maryland's graduate University for the Environment. He recently completed a federal appointment as Lead Scientist for the Science Program of the Delta Stewardship Council in California. He was the founding Director of the Center for Ecohydraulics Research in Idaho. His research interests are in modeling physical processes in natural and disturbed ecosystems. Goodwin has participated in river restoration, resilient coastal areas, flood risk reduction and sediment management projects throughout the US and internationally. He recently served as President of the International Association for Hydro-environment Engineering and Research (2015-19).

彼得·古德温, 马里兰大学环境科学中心 (UMCES) — 马里兰环境研究生院院长, 其最近接受了一项联邦任命, 担任加利福尼亚州三角洲管理委员会科学项目首席科学家。他是爱达荷州生态水力学研究中心创始主任。他的研究领域是对自然和受干扰生态系统中的物理过程进行建模。古德温参与了美国和国际上的河道整治、弹性沿海区、洪水风险降低和泥沙管理项目。近期, 其担任国际水利与环境工程学会主席 (2015-19 年)。

### **Steven M. Gorelick**

At Stanford University, Steven Gorelick holds the Cyrus F. Tolman Chaired Professorship in the School of Earth, Energy, and Environmental Sciences and is a Senior Fellow at the Woods Institute for the Environment. He runs the Hydro Program in the Dept. of Earth System Science. At Stanford since 1988, Professor Gorelick directs the *Global Freshwater Initiative*, and his two primary areas of research are water resources in developing countries and ecohydrology. He is a member of the *US National Academy of Engineering* and a Fellow of the *American Association for the Advancement of Science*.

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史蒂文·戈雷利克 (Steven Gorelick) 在斯坦福大学地球、能源和环境科学学院担任赛勒斯·托曼 (Cyrus F. Tolman) 主席教授一职，同时也是伍兹环境研究所的高级研究员，在地球系统科学系负责水文学项目。戈雷利克教授自 1988 年起在斯坦福大学指导全球淡水计划，他的两个主要研究领域是发展中国家的水资源和生态水文学。他也是美国国家工程院院士和美国科学促进会研究员。

### **Shenglian Guo (郭生练)**

Shenglian Guo, the chairman of Hubei Association for Science and Technology, Professor of Wuhan University, Foreign Academician of Norwegian Academy of Engineering, born in Longyan, Fujian Province in 1957, graduated from Wuhan Institute of Hydraulic and Electric Engineering in 1982, received a master's degree and doctorate from the National University of Ireland in 1986 and 1990 and a post-doctorate at Wuhan University of Hydraulic and Electrical Engineering from 1991 to 1993. He was promoted to professor in 1993, then elected as a doctoral supervisor in 1995, an expert enjoying the special government allowance of the State Council, and was elected as a foreign academician of the Norwegian Academy of Engineering in 2019. He is currently the director of the Water Research Center of Wuhan University, the honorary chairman of the Chinese National Committee of the International Association of Hydrological Sciences, the chief editor of Water Resources Research, and the editorial board member of Journal of Hydraulic Engineering, Advances in Water Science, Hydrology and other publications. He has presided over more than 30 national-level topics and more than 70 horizontal topics; guided and trained 10 post-doctoral, and more than 100 doctoral and master students; published more than 500 academic papers, including more than 190 SCI papers and more than 6,900 quotations; He has published more than 200 EI papers, and owns 16 authorized invention patents. He has published 15 books including Research Progress and Evaluation of Design Flood, Research on Key Technology of Dynamic Control of Flood Limit Water Level of Three Gorges Reservoir, Research on Integrated Dispatching for Flood Control and Benefit of the Giant Reservoirs on the Yangtze River and Hydrological Simulation and Forecast of Hanjiang River Basin and Optimal Dispatch and Allocation of Reservoir Water Resources. He has 18 achievements that have won ministerial or provincial-level and National Prize for Progress in Science and Technology. He is also a representative of the Ninth, Tenth, Eleventh, and Twelfth National People's Congress.

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郭生练教授,湖北省科协主席、武汉大学教授、挪威工程院外籍院士,男,1957年出身于福建省龙岩市,1982年毕业于武汉水利电力学院,1986年和1990年先后获爱尔兰国立大学硕士和博士学位,1991~1993年武汉水利电力大学博士后。

1993年晋升为教授,1995年增选为博士生导师、享受国务院政府特殊津贴专家,2019年当选挪威工程院外籍院士。现任武汉大学水问题研究中心主任,国际水文科协协会中国国家委员会名誉主席,《水资源研究》主编、《水利学报》、《水科学进展》、《水文》等刊物编委。先后主持完成国家级课题30余项和70多项横向课题;指导培养博士后10人、博士和硕士研究生100多人次;发表学术论文500多篇,其中SCI论文190多篇、引用6900多次;EI论文200多篇,授权发明专利16项,出版《设计洪水研究进展与评价》、《三峡水库汛限水位动态控制关键技术研究》、《长江巨型水库群防洪兴利综合调度研究》、《汉江流域水文模拟预报与水库水资源优化调度配置》等15本著作,有18项成果获省部级和国家科技进步奖。第九届、十届、十一届、十二届全国人大代表。

## Wei He (贺蔚)

He Wei, born in Yueyang, Hunan Province, is a young professor of Hohai University. He has long been engaged in the research of water temperature-water environment simulation and hydraulic mechanism of water extraction and drainage in basins and reservoirs. He has published 18 academic papers in *Water Resources Research*, *Journal of Hydrology* and other academic journals. Among these 18 published papers, He Wei is the first author or corresponding author of 5 papers. He was awarded the Excellent Doctoral Thesis of Tianjin Province. What's more, He Wei won two first-class prizes of provincial level, and he was selected for China Association for Science and Technology (CAST) Young Talent Support Program.

贺蔚,湖南岳阳人,河海大学青年教授。长期从事流域水温-水环境模拟和取排水水力学机理研究,开展了多个流域及水库的水动力、水温和水环境数值模拟和试验工作。在 *Water Resources Research*, *Journal of Hydrology* 等学术期刊发表论文18篇,其中1作/通讯Top期刊5篇),获省部级一等奖两项、天津市优秀博士论文,入选中国科协青年人才托举计划。

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## **Chunhong Hu (胡春宏)**

Chunhong Hu received his Ph.D. degree from the Department of Water Resources of Tsinghua University in 1989, majoring in Hydraulics and River Dynamics. He is currently the vice president of the China Institute of Water Resources and Hydropower Research, a professor-level senior engineer, the deputy director and secretary general of the International Research and Training Center on Erosion and Sedimentation, the head of the sediment expert group of the Three Gorges Project, the vice president of the Chinese Hydraulic Engineering Society, the vice president of the Chinese National Committee on Large Dams, and the head of the panel (2016-2023) of the major research program of the National Natural Science Foundation of China on "Runoff Variation and Adaptive Use in the Southwest River Source Region." He has long been engaged in theoretical and applied research in the fields of sediment movement mechanics, riverbed evolution and river regulation. He has hosted and undertaken more than 100 major scientific research projects at national and provincial levels. He has established the theory, model and technical system of river water and sand control, and solved technical problems in river management such as flow stabilization and management of the Yellow River estuary, management of the shrinking river channel and shaping of the mid-water channel in the lower reaches of the Yellow River, adjustment of the operation mode of Sanmenxia Reservoir and reduction of Tongguan elevation in the middle reaches of the Yellow River, control of reservoirs and dredging in the upper reaches of the Yellow River, simulation and control of sediment in the Three Gorges Reservoir and the lower reaches of the Yangtze River, river management and construction of water conveyance embankments in the mainstream of the Tarim River, dredging and improvement of Guanting Reservoir and restoration of water supply to Beijing, etc.. He has carried out research on major issues such as the evolution of the relationship between Yangtze River and Dongting Lake and Poyang Lake and their regulation, the mechanism of water-sand change and trend prediction in the Yellow River basin, and the change and adaptive use of runoff in the source region of southwest rivers. He has published more than 400 papers and 12 monographs. He has received 3 second prizes of the National Prize for Progress in Science and Technology, 1 special prize and 6 first prizes of the Provincial and Ministerial Scientific and Technological Advancement Award. He is the recipient of the National Science Fund for Distinguished Young Scholars and the China Young Science and Technology Award. He was elected as an



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academician of the Chinese Academy of Engineering in 2013.

胡春宏, 1989 年在清华大学水利系获博士学位, 水力学及河流动力学专业。现任中国水利水电科学研究院副院长、教授级高级工程师, 国际泥沙研究培训中心副主任兼秘书长、三峡工程泥沙专家组组长、中国水利学会副理事长、中国大坝工程学会副理事长、国家自然科学基金委重大研究计划“西南河流源区径流变化和适应性利用”指导专家组组长(2016-2023 年)。长期从事泥沙运动力学、河床演变与河道整治等领域的理论与应用研究。主持与承担国家级和省部级重大科研项目 100 余项。建立了江河水沙调控理论、模型与技术体系, 解决了黄河口流路稳定与治理、黄河下游萎缩性河道治理与塑造中水河槽、黄河中游三门峡水库运用方式调整与降低潼关高程、黄河上游水库调控与河道减淤、长江三峡水库及下游河道泥沙模拟与调控、塔里木河干流河道治理与输水堤防建设、官厅水库疏浚整治与恢复向北京市供水等江河治理中的工程技术难题。

开展了长江与洞庭湖、鄱阳湖关系演变及其调控, 黄河流域水沙变化机理与趋势预测, 西南河流源区径流变化和适应性利用等重大问题的研究。发表论文 400 余篇, 专著 12 部。获国家科技进步二等奖 3 项、省部级科技进步特等奖 1 项、一等奖 6 项。国家杰出青年科学基金、中国青年科技奖获得者。2013 年当选中国工程院院士。

## **Zulin Hua (华祖林)**

**Hua Zulin**, Professor, Ph.D. Expert enjoying special subsidies from the National Council Government, Prize winner of national science and technology progress award, Leader of science and technology innovation team of universities in Jiangsu Province, selected into Jiangsu Province 333 high level talent training project, six talent peaks and blue project, outstanding science and technology workers in Jiangsu Province, young and middle-aged experts with outstanding contributions in Nanjing City, etc.

At present, he is executive vice president of Graduate School of Hohai University. He once served as vice president of College of environment of Hohai University and deputy director of Key Laboratory of shallow lake comprehensive management and resource development of Ministry of education. He is a member of international ICOLD environmental committee, IWA member of International Water Association, member of a council of China Society of marine Limnology, executive member of a council of water environment branch of China Society of Environmental Sciences, executive

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member of a council of Jiangsu society of marine Limnology, etc.

He graduated from Hohai University with a bachelor's degree in marine hydrology in 1987, a master's degree in coastal dynamics in 1990, a doctor's degree in Environmental Engineering in 1999, and a post doctoral research in school of environmental science and engineering of Tongji University from 2000 to 2002. He was promoted to Professor in 2002 and senior visiting scholar of University of Virginia from 2004 to 2005.

He is mainly engaged in the teaching and scientific research of water environment and water ecological restoration, water environment model, pollutant transport and transformation, environmental hydraulics, environmental impact assessment and planning, ecological water conservancy and other aspects. He is responsible for the national 973 project, key project of National Natural Science Foundation of China, key project of Yangtze River Joint Fund, National Science and technology support plan, Major water special project, and world bank Project. He has published more than 140 papers, including 55 in SCI and 85 in EI; published 3 monographs; authorized or accept more than 40 invention patents; his research achievements have won the second prize of national science and technology progress award, the first prize of science and technology progress award of Ministry of education, the second prize of science and technology progress award of Ministry of education, the second prize of Jiangsu Science and Technology Progress Award and the Third prize of environmental protection science and technology award of Ministry of environmental protection, first prize of Yan Kai science and technology award, etc.

华祖林，男，教授，博士生导师，博士。享受国务院政府特殊津贴专家，国家科技进步奖二等奖获得者，江苏省高校科技创新团队带头人，入选江苏省 333 高层次人才培养工程、六大人才高峰和青蓝工程等计划，江苏省优秀科技工作者，南京市有突出贡献中青年专家等。

现任河海大学研究生院常务副院长，曾任河海大学环境学院副院长、浅水湖泊综合治理与资源开发教育部重点实验室副主任等。担任国际 ICOLD 环境专业委员会委员，国际水协会 IWA 会员，中国海洋湖沼学会理事，中国环境科学学会水环境分会常务理事，江苏省海洋湖沼学会常务理事等。

1987 年毕业于河海大学海洋水文专业，获学士学位；1990 年毕业于河海大学海岸动力学专业，获硕士学位；1999 年毕业河海大学环境工程专业，获博士学位

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位；2000 年至 2002 年在同济大学环境科学与工程学院从事博士后研究工作。2002 年破格晋升为教授；2004~2005 年美国弗吉尼亚大学高级访问学者。

主要从事水环境与水生态修复、水环境模型、污染物输运迁移转化规律、环境水力学、环境影响评价与规划、生态水利等方面的教学科研工作，负责了国家 973 课题、国家自然科学基金重点项目、长江联合基金重点项目、国家科技支撑计划、重大水专项专题、世界银行项目、国家自然科学基金面上项目等课题 40 余项；发表论文 140 余篇，其中 SCI 收录 55 篇、EI 收录 85 篇；出版专著 3 部；授权受理发明专利 40 余项；研究成果获国家科技进步二等奖、教育部科技进步一等奖、教育部科技进步二等奖、江苏省科技进步奖二等奖、环境保护部环境保护科学技术奖三等奖、严恺科技奖一等奖等。

### **Tony Jakeman**

Tony Jakeman is Professor, Fenner School of Environment and Society and Director of the Integrated Catchment Assessment and Management (iCAM) Centre, The Australian National University, and Research Partnerships Director of the Institute for Water Futures. He is an Environmental Modeller with over 400 publications in the open literature, half of these in refereed international journals. He has been a principal supervisor to over 60 graduated PhD students. Since 1997 he has also directed the iCAM Centre pursuing methods and applications of integrated assessment and decision support on water resource issues. He leads the Integration and Decision Support Program of the National Centre for Groundwater Research and Training. Other scientific and organisational activities include: Editor-in-Chief, Socio-Environmental Systems Modeling (open access journal), Honorary Editor-in-Chief, Environmental Modelling and Software (Elsevier); Foundation and Past President, International Environmental Modelling and Software Society; Past President, Modelling and Simulation Society of Australia and New Zealand, Inc.; Past Vice-President, International Association for Mathematics and Computers in Simulation; Board of Directors, The Integrated Assessment Society and of the Society for Decision Making under Deep Uncertainty; and regularly a member of scientific advisory committees of international conferences. In 2011 he received the Silver Medal of Masaryk University for contributions to environmental modelling and software. In 2012 he was awarded the Ray Page Lifetime Achievement Award from Simulation Australia. In 2015, 2017 and 2018 he was listed as a Highly-Cited Researcher by Clarivate/Thomson-Reuters

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(top 1%, computer science), and in 2015 was awarded an inaugural Lifetime Membership of the Modelling and Simulation Society of Australia and New Zealand. In 2016 he was elected as a Fellow of the American Geophysical Union.

托尼·杰克曼，芬纳环境与社会学院教授，澳大利亚国立大学集水区综合评估与管理（iCAM）中心主任，水未来研究所研究伙伴主任，环境建模者，出版 400 多篇公开文献，其中有一半发表在国际参考期刊。作为 60 多名博士研究生的第一导师，杰克曼教授自 1997 年以来，指导 iCAM 中心在水资源问题综合评估和决策支持上寻求方法和应用。此外，杰克曼教授还领导着国家地下水研究与培训中心的整合与决策支持计划，所任其他科学组织职位包括：社会环境系统建模（开放获取期刊）总编辑、环境建模和软件（爱思唯尔）名誉总编辑、国际环境建模与软件协会基金会和前任主席、澳大利亚和新西兰建模与仿真学会前任会长、国际数学和计算机模拟学会前副主席、综合评估学会和高度不确定性决策学会理事会、并定期担任国际会议科学顾问委员会的成员。2011 年，因对环境建模和软件贡献突出，获得马萨里克大学银质奖章。2012 年，获得《澳大利亚模拟》颁发的 RayPage 终身成就奖。2015 年，2017 年和 2018 年，他被科瑞唯安/汤森路透（计算机科学排名前 1% 期刊）评为“高被引用科学家，并于 2015 年被授予澳大利亚和新西兰建模与仿真学会终身会员，于 2016 年当选为美国地球物理学会会员。

## **Yong Jiao (矫勇)**

Yong Jiao is a member of the Standing Committee of the 13th National People's Congress, a member of the Environment and Resources Protection Committee of the National People's Congress, and chairman of the China Society of Dam Engineering. Yong Jiao was sent to Imperial College London to further his study and received a Doctor of Engineering degree. After returning to China, he was successively appointed as Deputy Director General, Director General, Director of Water Diversion, Deputy Minister of Water Resources and Deputy Secretary of the Party Leadership Group of the Ministry of Water Resources. Over the years, he has presided over the compilation of several major water conservancy plans and the demonstration of 172 major water conservancy projects. He has profound attainments in water law and policy formulation, water conservancy planning and planning, water resources management, water history and water culture research. He is a scholar-type leading cadre and enjoys high reputation and influence in the water conservancy industry.

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矫勇同志是第十三届全国人大常委会委员、全国人大环境与资源保护委员会委员，中国大坝工程学会理事长。矫勇曾公派赴英国伦敦帝国理工学院留学并获工学博士学位，回国后先后任水利部规划计划司副司长、司长、调水局局长、水利部副部长、党组副书记等职，多年主持编制我国多部水利重大规划、172项重大水利工程论证工作，在我国水法规政策制定、水利规划计划、水资源管理、以及水历史、水文化研究方面具有较深的造诣，是学者型领导干部，在水利行业内享有较高的声望和影响力。

### **Shaozhong Kang (康绍忠)**

Shaozhong Kang, born in Taoyuan, Hunan Province, is an expert in agricultural soil and water engineering. He graduated from Wuhan Institute of Water Conservancy and Electric Power in 1982, received his PhD. in Engineering from Northwest Agricultural University in 1990 and was awarded an Honorary Doctor of Science from Lancaster University in 2010. He is currently a professor at China Agricultural University, director of the Center for Agricultural Water Research in China, and director of the National Field Scientific Observation and Research Station of Oasis Agroecosystems in Wuwei, Gansu Province. He is also the director of the Standing Committee of the Department of Agricultural Sciences of the Chinese Academy of Engineering, the president of the China Agricultural Water Conservation and Rural Water Supply Technology Association, the chairman of the National Advisory Committee of Agricultural Engineering Teaching in Higher Education, the head of the Water-efficient Agriculture Expert Guiding Group of the Ministry of Agriculture and Rural Affairs, the vice-chairman of the Chinese Society of Agricultural Engineering, the vice-chairman of the National Committee of Irrigation and Drainage of China. He is the associate editor-in-chief of the *Journal of Integrative Agriculture*, *Journal of Ecology*, *Journal of Agricultural Engineering*, director of the editing committee of *Frontiers of Agricultural Science and Engineering*, and deputy director of the editing committee of the *International Journal of Agricultural and Biological Engineering*.

He has been awarded one ICID International Award for Outstanding Contribution in Technology Innovation for Water Conservation and Water Savings in Agriculture, a First Prize of National Science and Technology Progress, three Second Prizes of National Science and Technology Progress, one Second Prize of National Natural Science, two Second Prizes of National Outstanding Teaching Achievement, one

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Special Prize of National Postgraduate Education Achievement, and a Third Prize of National Outstanding Science and Technology Book. He has published more than 400 academic papers, including more than 200 SCI-indexed papers, and has been continuously listed in Elsevier's "2014-2020 list of highly cited scholars in China". He has published 12 books and textbooks. He has supervised 75 Ph.D. graduates and 76 M.S. graduates, two of whom were awarded the National Award for 100 Outstanding Doctoral Dissertations and one of whom was nominated for the award.

In 1994, he was selected as one of the first batches of the "Hundred Talents Program" of the Chinese Academy of Sciences, and in 1997, he was awarded the National Outstanding Young Scientists Fund. He was appointed as a special professor of "Chang Jiang Scholars" in 2001 and was selected as an innovation team of the Ministry of Education in 2006. He was listed into the innovative research group of the National Natural Science Foundation of China in 2013. He was once rated as a National Model Worker in the National Education System, a National Model Teacher, a Young and Middle-aged Expert with Outstanding National Contributions, as well as an Outstanding Communist Party Member in Beijing, an Outstanding Theoretical and Political Worker in Beijing, and an Advanced Worker in Beijing. In 2011, he was elected as an academician of the Chinese Academy of Engineering.

康绍忠，湖南桃源人，农业水土工程专家。1982 年本科毕业于武汉水利电力学院，1990 年获西北农业大学工学博士学位，2010 年被英国 Lancaster 大学授予荣誉科学博士。现任中国农业大学教授、中国农业水问题研究中心主任、甘肃武威绿洲农业生态系统国家野外科学观测研究站站长。兼任中国工程院农业学部常委会主任、中国农业节水和农村供水技术协会会长、全国高等学校农业工程类专业教学指导委员会主任委员、农业农村部节水农业专家指导组组长、中国农业工程学会副理事长、中国灌溉排水国家委员会副主席，《Journal of Integrative Agriculture》、《生态学报》、《农业工程学报》副主编，《Frontiers of Agricultural Science and Engineering》编委会主任，《International Journal of Agricultural and Biological Engineering》编委会副主任。

先后获 ICID 国际农业节水技术创新杰出贡献奖 1 项、国家科技进步一等奖 1 项、国家科技进步二等奖 3 项、国家自然科学基金二等奖 1 项、国家优秀教学成果二等奖 2 项、全国研究生教育成果特等奖 1 项、国家优秀科技图书三等奖 1 项。发表学术论文 400 余篇，SCI 收录 200 余篇，曾连续入选 Elsevier “2014-2020 年中国高被引学者榜单”。出版著作与教材 12 部。指导毕业博士 75 人，毕业硕士

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76 人，其中 2 人获全国百篇优秀博士学位论文奖，1 人获提名奖。

1994 年首批入选中国科学院“百人计划”，1997 年获国家杰出青年科学基金，2001 年被聘为“长江学者”特聘教授，2006 年入选教育部创新团队，2013 年入选国家自然科学基金委员会创新研究群体。曾被评为全国教育系统劳动模范、全国模范教师、国家有突出贡献的中青年专家以及北京市优秀共产党员、北京市优秀思想政治工作者和北京市先进工作者。2011 年当选为中国工程院院士。

## **Joseph Hun-wei Lee (李行伟)**

**Professor Joseph Hun-wei Lee** is Vice-Chancellor and President of Macau University of Science and Technology (MUST). He is a Fellow of the Royal Academy of Engineering and Past President of the Hong Kong Academy of Engineering Sciences. He has previously served as Vice-President (Research) at the Hong Kong University of Science and Technology (HKUST) (2010-2016) and Pro-Vice-Chancellor and Vice-President (Staffing) at the University of Hong Kong (HKU) (2004-2010).

He has served as expert consultant on numerous hydro-environmental projects and contributed to several major environmental management and flood control infrastructure in Hong Kong – including the Harbour Area Treatment Scheme (HATS), Tai Hang Tung Storage Scheme, the Hong Kong Island West Storm Water Drainage Tunnel, and new practices of sustainable fisheries management. Over the past decade he has pioneered Project WATERMAN – a real time coastal water quality forecast and management system. In recent years he has focused on water research related to harmful algal blooms, wastewater chlorination and excess lead in drinking water.

李行偉- 澳門科技大學校長、講座教授。英國皇家工程院院士，香港工程科學院院士、前院長。廣東省院士聯合會理事。現任國際水利與環境工程學會 (IAHR) 主席，是 IAHR 成立 85 年以來首位華人主席；SCI 期刊「Journal of Hydro-environment Research」創刊主編；香港公共政策研究資助計劃評審委員會主席。曾任香港大學及香港科技大學副校長、及香港研究資助局主席。

李教授長期從事環境水力學、近海水質模擬技術以及城市水安全的理論方法及工程應用研究。其研究成果被廣泛地應用在世界各地的水利與環境工程。曾獲國家科技進步二等獎（排名 1）、美國土木工程師學會(ASCE) Hunter Rouse 水力工程成就獎（亞洲唯一）、ASCE Hilgard 水力研究獎、國際水利與環境工程學會 IAHR 榮譽會員及 Croucher Foundation 裘槎基金會「香港優秀科研學者」獎等。

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近年致力開發 WATERMAN 實時近海水質預報系統，及有關香港「淨化海港」工程消毒系統和「鉛水事件」的研究、開「智慧環境管理」的先河。

### **Mingshan Lei (雷鳴山)**

Mingshan Lei, born in Hequ, Shanxi Province; graduated from the Institute of Economics of Nankai University with a master degree in political economy. As a senior economist, he has worked as deputy director of the Economic and Legal Department of China International Engineering Consulting Corporation, deputy manager of Zhongzi Asset Appraisal Firm, general manager assistant, deputy general manager and party member of China International Engineering Consulting Corporation, deputy director of the Three Gorges Project Inspection Department of the state council. He once served as the director of the Capital Planning Department and vice minister of water resources. In August 2018, he became chairman and secretary of the party group of China Three Gorges Corporation.

雷鳴山，山西河曲人，南开大學經濟研究所政治經濟學專業碩士研究生畢業，高級經濟師。歷任中國國際工程諮詢公司經濟法律部副處長、中咨資產評估事務所副經理、中國國際工程諮詢公司總經理助理、副總經理（正司級），中國國際工程諮詢公司黨組成員、副總經理，國務院三峽辦稽察司副司長（正司級）、資金計劃司司長，國務院三峽辦副主任、黨組成員，水利部副部長、黨組成員，2018年8月任中國長江三峽集團有限公司董事長、黨組書記。

### **Bai-Lian (Larry) Li**

Li is the director of three research centers: the International Center for Ecology and Sustainability, the International Center for Arid Land Ecology and the U.S. Department of Agriculture -- China Joint Research Center for AgroEcology and Sustainability. His research interests include quantitative plant ecology, ecological complexity and modeling, theoretical and mathematical ecology, systems ecology, landscape ecology, computational biology, and ecological informatics. His lab at UCR addresses questions such as: How do biological and ecological systems self-organize? What are the origins and mechanisms of emergence of scaling from individual to landscape levels? And what are the physical bases of non-equilibrium biological and ecological systems? To address these questions, Li's lab uses mathematical, statistical,



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and computational modeling approaches. The lab also addresses applied ecological problems in conservation biology, biological invasion, restoration ecology, ecological monitoring and assessment, global change, and sustainable development. Li is a fellow of the Institute for Human Ecology and Chair Professor of the Chinese Academy of Science. He is also honorary professor of the Russian Academy of Sciences and a fellow of the American Association for the Advancement of Science. Currently, he presides over the Eco-Summit Foundation. He has served as the founder and editor of the *International Journal of Ecological Complexity* and the *Journal of Arid Land*. He has organized many symposia and courses with organizations such as the Max Planck Institute and the Santa Fe Institute. He is the author of more than 200 refereed journal articles, conference papers, 30 book chapters and eight books or edited special issues.

Li 负责国际生态与可持续发展中心、旱土生态与美国农业部国际中心、中国农业生态与可持续发展联合研究中心, 研究兴趣包括定量植物生态学, 生态复杂性建模, 理论数学生态学, 系统生态学, 景观生态学, 计算生物学和生态信息学。在加州大学滨河分校的实验室专攻以下课题: 生物和生态系统如何自我组织? 从个人到景观层次缩放出现的根源和机制是什么? 非平衡生物和生态系统的物理基础是什么? 为此, Li 的实验室采取数学, 统计和计算建模方法。该实验室解决了保护生物学、生物入侵、生态恢复、生态监测评估、全球变化和可持续发展中的应用生态问题。Li 是人类生态研究所的研究员、中国科学院的讲座教授、俄罗斯科学院的名誉教授、美国科学发展协会的成员。目前, Li 主持生态峰会基金会, 曾担任《国际生态复杂性杂志》和《干旱土地杂志》的创始人和编辑, 与马克斯·普朗克研究所和圣达菲研究所等机构组织了诸多座谈会和课程, 出版 200 多篇参考期刊文章与会议论文和 30 本专著, 撰写书籍或经编特刊共计 8 部。

### **Huajun Li (李华军)**

Prof. Li Huajun, Vice President of Ocean University of China and Academician of the Chinese Academy of Engineering, is an expert of ocean engineering safety whose research focuses on coastal and ocean engineering.

Li has long been dedicated to the research of ocean engineering structures, hydrodynamics and disaster prevention technology. In response to the major needs of the country in developing marine resources, he has made significant contributions to the design, construction and safe operation of new-type ocean engineering structures,

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advanced China's marine engineering theory and technology, and improves the country's capability of carrying out major engineering projects.

Li is the author of over 200 papers and 5 books. He holds more than 30 national invention patents, and his research results have been incorporated into five national industry standards and specifications. He has won three National Science and Technology Awards, six First Prizes for Provincial Science and Technology Awards, the Prize for Scientific and Technology Innovation of the Ho Leung Ho Lee Foundation and the Guanghua Engineering Science and Technology Award. He has been funded by the National Science Fund for Distinguished Young Scholars and holds the title of Distinguished Professor of the Chang Jiang Scholars Program.

Li holds several leadership roles including the director of the Academic Committee of the State Key Laboratory of Coastal and Offshore Engineering and the director of the Advisory Committee of Ocean Engineering Programs Teaching at Higher Educational Institutions under the Ministry of Education.

李华军，中国海洋大学教授、副校长，主要从事海岸与海洋工程研究，海洋工程安全专家，中国工程院院士。

长期从事海洋工程结构与水动力学及安全防灾技术研究，围绕海洋资源开发的国家重大需求，在新型海工结构的设计施工以及安全运行领域做出了突出贡献，提升了我国海洋工程领域的理论与技术水平及重大工程实践能力。

发表论文 200 余篇，出版著作 5 部。授权国家发明专利 30 余项，成果纳入 5 部国家行业规范标准。获国家科技奖励 3 项、省部级科技奖励一等奖 6 项、何梁何利创新奖及光华工程科技奖。获国家杰出青年科学基金，入选“长江学者”特聘教授。

目前兼任海岸与近海工程国家重点实验室学术委员会主任委员、教育部高等学校海洋工程类专业教学指导委员会主任委员等。

## **Yun Li (李云)**

Li Yun, born in Gaochun, Jiangsu. Vice President of Ministry of Water Resources, Ministry of Transport, National Energy Administration, and Nanjing Hydraulic Research Institute, second-level professor-level senior engineer, doctoral tutor, also the director of the National International Joint Research Center of Water Science &

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Engineering, the director of the National Research and Development Center for Safety and Environmental Technology in Energy and Hydropower Engineering, the vice president of the Chinese Society of Hydropower Engineering, the vice director of the International Association of Hydraulic Research (IAHR) China, and the editor-in-chief of the *Hydro-Science and Engineering*. He was selected as the first batch of national candidates for the "New Century Talent Project", 5151 ministerial candidates from the Ministry of Water Resources, and the first-level training target of the "333 High-Level Talent Training Project" in Jiangsu Province (Young and Middle-aged Chief Scientists). He also received special government allowances from the State Council, won the "National Outstanding Scientific and Technological Worker" in 2010, the third Pan Jiazheng Award in 2014, the "First Outstanding Person in Science and Technology Contribution of the Chinese Society of Navigation" in 2019, and the "National Innovation Award Certificate" in 2020, won the "National Innovation Award" and "Qian Zhengying Water Conservancy and Hydropower Science and Technology Innovation Award" in 2020.

He has been engaged in scientific research in the water conservancy and hydropower industry, with solid professional basic knowledge, decent academic style, rigorous academic research, and broad knowledge. In the past 30 years, he has made outstanding contributions to the development of water conservancy and hydropower disciplines, promoting industry technology progress, and cultivating talents. He has presided over and completed more than 70 projects, including the National Science and Technology Tackle from the Seventh Five-Year Plan to the Ninth Five-Year Plan, the National Science and Technology Support Program of the Eleventh Five-Year Plan, the National Key Research and Development Program of the Thirteenth Five-Year Plan, the National 863, the National International Cooperation Special Project, the Key Research of Three Gorges Project, the National Natural Science Foundation of China, and large-scale engineering commissions, etc. He has written more than 100 scientific reports and papers, 7 monographs, and 6 specifications and standards. He was awarded 20 national invention patents, 13 utility model patents, and 2 software copyrights, supervised 4 post-doctoral fellows, 10 doctors and 9 masters, received 1 first prize of National Science and Technology Progress, 3 second prize of National Science and Technology Progress, 7 special prizes, 7 first prize, 3 second prize and 1 third prize of Science and Technology Progress at ministry and provincial level.

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李云，江苏高淳人。水利部交通运输部国家能源局南京水利科学研究院副院长、二级教授级高级工程师、博士生导师，兼任国家级水科学与水工程国际联合研究中心主任、国家能源水电工程安全与环境技术研发中心主任、中国水力发电工程学会副理事长、国际水利学会（IAHR）中国分会副主任，《水利水电工程学报》主编等。入选首批“新世纪百千万人才工程”国家级人选，水利部 5151 部级人选，江苏省“333 高层次人才培养工程”第一层次培养对象（中青年首席科学家），获国务院政府特殊津贴，2010 年获“全国优秀科技工作者”，2014 年获第三届潘家铮奖，2019 年获“中国航海学会首届科技贡献突出人物”，2020 年获“全国创新争先奖状”和“钱正英水利水电科技创新奖”。

一直从事水利水电行业的科研的工作，专业基础知识扎实，学风正派，治学严谨，知识面宽，近 30 年来在水利水电学科发展、推动行业技术进步、培养人才等方面作出了突出贡献。主持和完成了国家“七五”至“九五”科技攻关、国家“十一五”科技支撑计划、国家“十三五”重点研发计划、国家 863、国家国际合作专项、三峡工程重点科研、国家自然科学基金及大型工程委托等项目 70 多项，撰写科研报告和发表论文 100 余篇，编写专著 7 部，主持与参与编写规范、标准 6 部。

获国家发明专利 20 件、实用新型专利 13 件，软件著作权 2 件。指导博士后 4 名、博士 10 名，硕士 9 名。获国家科技进步一等奖 1 项，国家科技进步二等奖 3 项，部省级科技进步特等奖 7 项、一等奖 7 项、二等奖 3 项、三等奖 1 项。

### **Yanqing Lian (连炎清)**

**Dr. Lian, Yanqing**, Professor, Chinese American, obtained his bachelor's degree and master's degree in hydrogeology from the China University of Geosciences in 1984 and 1987; He was with the University of Illinois at Urbana-Champaign (UIUC) from 1993-2018 for education and research, earned his second master's degree and a doctor's degree in hydrology and water resources from the Department of Civil and Environmental Engineering at UIUC in 1997 and 2000. Dr. Lian served as president for the Chinese American Water Resources Association from 2007-09 and twice as vice president for the Cross Strait International Conference on Water Resources. He was invited to join the Institute of Earth Environment, Chinese Academy of Sciences in 2018 to develop a research program in water environment.

Prof. Lian' s major research interests include: ecosystem restoration of wetlands, ecological sustainability of water resources and environment, real-time flood risk

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modeling and mapping, hydrological modeling for sponge city design, modeling of non-point source pollution, vulnerability assessment of ecological environment and optimal management, groundwater and pollutant transport modeling, development and application of distributed hydrologic models, development of coupled surface water and groundwater models, etc.

连炎清博士，教授，美籍华人，1984 年和 1987 年获得中国地质大学水文地质学学士学位和硕士学位;1993 年至 2018 年在伊利诺伊大学厄巴纳-香槟分校从事教育和研究工作，1997 年和 2000 年分别获得伊利诺伊大学厄巴纳-香槟分校土木与环境工程系水文与水资源第二硕士学位和博士学位。连炎清博士于 2007 年至 2009 年担任中美水资源协会会长，并两次担任海峡两岸水资源国际会议副会长。2018 年应邀加入中国科学院地球环境研究所，开展水环境研究项目。

连炎清教授的主要研究方向包括:湿地生态系统修复、水资源与环境生态可持续性、实时洪水风险建模与制图、海绵城市设计水文建模、非点源污染建模、生态环境脆弱性评估与优化管理、地下水与污染物运移建模、分布式水文模型的开发与应用、地表水与地下水耦合模型的开发等。

### **Xiaobo Liu (刘晓波)**

Liu Xiaobo, born in 1978, is a Ph.D., a professor-level senior engineer, and a registered environmental assessment engineer. He is the deputy director of the Institute of Water Ecology and Environment, China Institute of Water Resources and Hydropower Research, the leader of the Institute's "innovation team for research on water ecological security and regulation technology of major water conservancy projects", and the general secretary of the Water Quality Sub-Committee of the China Committee of the International Association of Hydrological Sciences (IAHS). He was the General Secretary of the Youth Science and Technology Working Committee of China Water Resources Society. He received his bachelor's, master's, and Ph.D. degrees in Environmental Studies from Hohai University and Beijing Normal University, respectively, and postdoctoral degrees from Florida State University and the University of Michigan.

He has been engaged in the research on the synergistic response and integrated regulation of river and lake hydrology, water quality, and water ecology, and has presided over or participated in more than 50 projects including the National Major

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Water Project, National Key Research and Development Program, National Natural Science Foundation of China and several demonstrations of major water conservancy projects. He has systematically studied the water environment capacity and total decomposition technology of water bodies, emergency warning, and forecasting technology for water pollution emergencies, hydraulic dispatching technology system, zoning of key factors affecting the ecological environment of lakes and reservoirs by large-scale storage projects, and time-sharing quantitative assessment methods. He has won one National Science and Technology Progress Award and four provincial and ministerial level science and technology awards, published more than 90 papers. He was granted 17 patents, 11 software copyright. He co-edited six books and five standards. He was awarded the title of "Excellent Communist Party Member" by the Party Committee of the Ministry of Water Resources, "Scientific and Technological Excellence" by the Chinese Academy of Water Resources, and "Outstanding Youth" by the Chinese Academy of Water Resources in its 60th anniversary.

刘晓波，1978 年生，男，汉族，博士，教授级高工，注册环评工程师；中国水利水电科学研究院水生态环境研究所副所长，院“重大水利工程水生态安全保障及调控技术研究创新团队”带头人，国际水文科学协会（IAHS）中国委员会水质分委会秘书长，曾任中国水利学会青年科技工作委员会秘书长。分别于河海大学、北京师范大学获得环境专业学士、硕士和博士学位，美国佛罗里达州立大学和密歇根大学博士后。

长期从事河湖水文-水质-水生态的协同响应与综合调控研究，先后主持或参与完成了国家重大水专项、国家重点研发计划、国家自然科学基金及多个重大水利工程论证等项目 50 余项。系统研究了水体水环境容量和总量分解技术、水污染突发事件应急预警预报技术和水力调度技术体系、大型拦蓄工程对湖库生态环境影响关键因素分区、分时的定量化评估方法等。获国家科技进步二等奖 1 项、省部级科技奖 4 项，发表论文 90 余篇，授权发明专利 17 项，软著 11 项，参编著作 6 部、标准 5 项。获水利部直属机关党委“优秀共产党员”、中国水科院“科技英才”、中国水科院组建 60 周年“杰出青年”等称号。

### **Junguo Liu (刘俊国)**

Dr. Junguo Liu is a Chair Professor in the School of Environmental Science and Engineering at Southern University of Science and Technology (SUSTech) in China.

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His main research interests include hydrology and water resources, global environmental change, and ecological restoration. He has earned an excellent international reputation through his contributions to the fields of water resources research and ecological restoration. He has led a pioneering work on advancing water resources assessment in coupled human-natural systems, in particular for global hydrology research and water scarcity assessment by incorporating water resources quantity, quality and environmental flow requirement. His work has been a breakthrough in assessing and quantifying the water quantity and quality related water scarcity, which has become increasingly common in many areas in the world as the poor water quality makes the limited water resources not useable. Prof. Liu has made a substantial contribution to river restoration in China. He created the theory of stepwise ecological restoration (STERE) that comprises three modes in different restoration stages: environmental remediation in the initial stage with serious degradation, ecological rehabilitation for moderately degraded ecosystems, and natural restoration for slightly degraded ecosystems. He founded two ecological restoration organizations in China: the *Society for Ecological Rehabilitation of Beijing* (SERB), founded in 2014, and the *Union of Societies for Ecological Restoration and Environmental Protection* (USEREP), founded in 2016. The former is the first society recognized by the Chinese government which specifically focuses on eco-hydrological restoration. The latter is the first officially recognized union of Chinese organizations by Beijing Association of Science and Technology. Prof. Liu is the first president of SERB, and the first Chair of USEREP.

Prof. Liu is author of over 230 publications (165 ISI papers), including 7 books and 15 articles in *Science* (2), *Nature* (2), *PNAS* (3), *Nature Climate Change* (3), *Nature Communications* (2), *Nature Sustainability* (2) and *Science Advances* (1). His articles have been cited for almost 10,000 times. He is/was an editor-in-chief, editor, associate editor or board member of 9 scientific journals, and a guest editor of 9 special issues in various journals. He is recognized with numerous awards that include the World Academy of Sciences (TWAS) Award, the *Communication Award* of the International Society for Ecological Restoration (SER), EGU's *Outstanding Young Scientist Award* (the world first hydrologist for this award), the Special Allowance of State Council of China, and the *Outstanding Young Scientist Award* from the National Natural Science Foundation in China.

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Liu, 中国南方科技大学 (SUSTech) 环境科学与工程学院的讲座教授, 主要研究兴趣是水文学与水资源, 全球环境变化和生态修复。Liu 在水资源研究和生态修复领域的贡献突出, 因此享誉国际。曾领军一项开创性研究, 旨在提升人与自然的耦合系统中水资源评估质量, 致力于通过结合水资源的数量, 质量和环境流量要求, 尤其要提升全球水文研究和水资源短缺评估水平。其工作在评估和量化与水量和水质有关的水资源短缺方面取得突破性进展——由于水质差导致有限的水资源无法使用, 水资源短缺在世界许多地区变得越来越普遍。Liu 为中国的河流修复做出了重大贡献, 创建了逐步生态恢复理论 (STERE), 该理论包括处于不同恢复阶段的三种模式: 严重退化的初始阶段的环境修复, 中度退化的生态系统的生态恢复, 轻度退化的生态系统的自然恢复。Liu 在中国成立了两个生态恢复组织: 成立于 2014 年的北京生态恢复协会 (SERB) 和成立于 2016 年的生态恢复与环境保护协会联合会 (USEREP)。前者是第一个得到认可的社会由中国政府专门致力于生态水文修复。后者是北京科学技术协会首次正式认可的中国组织工会。刘教授是为两者的第一任主席。

Liu 是 230 多部出版物 (165 篇 ISI 论文) 的作者, 其中包括在 *Science* (2), *Nature* (2), *PNAS* (3), *Nature Climate Change* (3), *Nature Communications* (2), *Nature Sustainability* (2) and *Science Advances* 发表的 7 本书和 15 篇文章, 被引用近 10,000 次。同时也是 9 家科学期刊主编, 编辑, 副编辑或董事, 9 家特刊的客座编辑。刘教授享誉无数, 其中包括世界科学院 (TWAS) 奖, 国际生态修复协会 (SER) 传播奖, EGU 杰出青年科学家奖 (该奖项的世界首位水文学家), 国务院特殊津贴, 并荣获中国国家自然科学基金委, 国家自然科学基金委颁发的杰出青年科学家奖。

## **Jian Luo (罗剑)**

Dr. Jian Luo graduated from Stanford University with a Ph.D. in Civil and Environmental Engineering. He is currently an associate professor at Georgia Institute of Technology. Dr. Luo's research includes modeling of groundwater flow and reactive transport, seawater intrusion, inverse modeling, and groundwater remediation. He has published over 90 peer-reviewed papers in top journals. Dr. Luo serves as Associate Editor for Journal of Hydrology and Water Resources Research.

罗剑博士于斯坦福大学获得土木与环境工程博士学位, 目前是乔治亚理工学院的副教授, 在顶级期刊上发表了 90 多篇同行评议论文。主要研究方向为地下



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水流与反应输运建模、海水入侵、逆建模、地下水修复等。现任《水文与水资源研究》杂志副主编。

### **Zhenglin Lyu (吕振霖)**

Zhenglin Lyu (Lv Zhenlin), the professor-level senior engineer. He has been engaged in water conservancy planning and construction management for a long time. He successively participated in and organized the management of the bank of the Sima Bend in the Yangtze River in the 1980s, organized and directed the fight against the 1991 Xinghua catastrophic flood disaster, participated in the 1998 lower Yangtze River flood control and flood fighting, and Jiangsu Jianghai embankment compliance project construction. During his ten-year tenure as the director of the Department of Water Resources of Jiangsu Province, he successively participated in the organization of the flood fight in the lower reaches of the Huaihe River in 2003, the flood fight in the Taihu Lake Basin in 2007, and the flood fight in the Chuhe River Basin in 2008; participated in the formulation and implementation of the Taihu Lake water environment management plan; organized the planning and construction of post-disaster water conservancy projects in the lower Huaihe River Basin, the planning and construction of water conservancy projects in Jiangsu coastal areas, and the planning and construction of water conservancy projects in the Taihu Basin, and organize the planning demonstration and organizational construction of the first phase of the Jiangsu section of the Eastern Route of the National South-to-North Water Transfer Project, etc. He has also published many papers and put forward relevant opinions and suggestions on the governance of the three major river basins of the Yangtze River, Huaihe River, and Taihu Lake. He was the first person in China to put forward "safe water conservancy, resource water conservancy, ecological water conservancy, and people's livelihood water conservancy", took the lead in organizing the preparation of the Jiangsu water conservancy modernization plan, and was approved as the China's first water conservancy modernization pilot province.

吕振霖 教授级高工，长期从事水利规划和建设管理工作，曾先后参与和组织 80 年代长江江都嘶马弯道崩岸治理，组织指挥抗击 1991 年兴化特大洪涝灾害斗争，参加 1998 年长江下游防洪抗洪斗争，江苏江海堤防达标工程建设。在担任 10 年江苏省水利厅长期间，先后参与组织 2003 年淮河流域下游的抗洪斗争、2007 年太湖流域的抗洪斗争和 2008 年滁河流域的抗洪斗争；参与太湖水环境治

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理方案制定和组织实施；组织淮河流域下游灾后水利治理工程的规划建设、江苏沿海地区水利规划建设、太湖流域水利治理工程的规划建设；组织国家南水北调东线一期江苏段工程的规划论证和组织建设等；对长江、淮河、太湖三大流域治理发表过许多论文，提出相关意见建议；在全国率先提出“安全水利、资源水利、生态水利、民生水利”的水利工作理念，率先组织江苏水利现代化规划编制，并获批全国第一个水利现代化试点省份。

## **Hongqi Ma (马洪琪)**

Hongqi Ma, academician of the Chinese Academy of Engineering, is a leader in the field of water conservancy and hydropower in China, and has made outstanding contributions to the construction of high dams, underground engineering and navigation of high dams.

Ma has won more than 20 scientific and technological progress awards at or above the provincial or ministerial level, including 4 Second Prize of National Science and Technology Progress Award and 1 Second Prize of National Technical Invention Award. In addition, he has won the Ho Leung Ho Lee Award for Science and Technology Progress and the Yunnan Provincial Science and Technology Outstanding Contribution Award.

Ma has been awarded the Lifetime Achievement Award by the International Commission on Large Dams for his outstanding contributions to dam construction and development in China and the world, as well as his outstanding achievements in the digital and intelligent safety construction of high dam projects and in promoting the growth of young engineers.

马洪琪院士是我国水利水电领域的领军者，在高坝建设、地下工程和高坝通航方面均作出了突出贡献。马院士获省部级以上科技进步奖 20 余项，其中国家科技进步二等奖 4 项、国家技术发明二等奖 1 项，获何梁何利科学与技术进步奖、云南省科学技术杰出贡献奖。由于马院士对中国和世界大坝建设发展所作出的卓越贡献，对高坝工程数字化、智能化安全建设和促进年轻工程师成长所作出的突出成就，荣获国际大坝委员会终身成就奖。

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## Michael McKay

**R. Michael McKay** is Executive Director and Professor at the Great Lakes Institute for Environmental Research at the University of Windsor. Prior to that, he served on the faculty at Bowling Green State University (OH, USA) for 21 years where he held an endowed Professorship. Professor McKay received undergraduate- and graduate degrees in Biology from Queen's University at Kingston (Canada) and McGill University (Montréal, Canada), respectively. Upon completion of his doctoral work, he held postdoctoral fellowships at the University of Alaska Fairbanks and with the University of Delaware where he served concurrently at the U.S. Department of Energy's Brookhaven National Laboratory on Long Island, NY. From his roots in ocean science, Professor McKay's research expanded to include large lakes on his arrival to the Great Lakes basin where his contributions to the field of environmental microbiology have advanced our current understanding of the dynamics of cyanobacterial harmful algal blooms in Lake Erie, including the role of cyanophage as agents of bloom decline which threatens the security of our potable water supply. With the onset of the COVID-19 pandemic, McKay and his team pivoted to wastewater surveillance of SARS-CoV-2 where environmental data are informing public health decision-making. Among Professor McKay's research honours, he was awarded an Alexander von Humboldt Foundation Research Fellowship in 2005 where he was resident at the Helmholtz Centre for Ocean Research Kiel (Germany) and in 2013, was named Visiting Scholar at the Large Lakes Observatory of the University of Minnesota. In China, he serves as Deputy Director of the Academic Committee for the National Base of International Science and Technology Collaboration on Water Environmental Monitoring and Simulation in Three Gorges Reservoir Region (Southwest University, Chongqing) and as an overseas team member of the Discipline Innovation and Research Base on Watershed Environmental Management and Ecological Restoration (Hohai University, Nanjing). Professor McKay is the author of over 100 peer-reviewed manuscripts, is a co-recipient of the 2019 John Martin award from the Association for the Sciences of Limnology and Oceanography and currently serves as an Associate Editor for the *Journal of Great Lakes Research*.

R. Michael McKay, 温莎大学五大湖环境研究所执行主任兼教授。在此之前，他曾在美国鲍灵格林州立大学(OH, USA)任教 21 年，并在那里担任讲席教授。McKay 教授分别获得皇后大学金斯顿分校(加拿大)和麦吉尔大学(Montréal, 加拿

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大)生物学学士学位和硕士学位。在完成博士工作后,他在阿拉斯加费尔班克斯大学和特拉华大学获得博士后奖学金,并在美国能源部位于纽约州长岛的布鲁克海文国家实验室工作。McKay 教授的研究从海洋科学的基础扩展到包括大湖泊在他到达五大湖盆地,他在环境微生物学领域的贡献提高了我们目前对蓝藻有害藻类在伊利湖的赤水动态的理解,包括噬藻体的作用,因为它会导致水华减少,威胁到我们的饮用水供应安全。随着 COVID-19 大流行的爆发,McKay 和他的团队将重点放在了对 SARS-CoV-2 的废水监测上,因为环境数据可以为公共卫生决策提供信息。在 McKay 教授的研究成果中,他于 2005 年获得亚历山大·冯·洪堡基金会研究奖学金,并在德国基尔赫姆霍尔茨海洋研究中心担任常驻研究员。2013 年,他被明尼苏达大学大湖天文台任命为访问学者。在中国,他担任三峡库区水环境监测与模拟国家国际科技合作基地(西南大学,重庆)学术委员会副主任,南京河海大学流域环境管理与生态修复学科创新研究基地海外团队成员。McKay 教授撰写逾 100 份同行评议手稿,是湖泊科学和海洋学协会 2019 年约翰·马丁奖的共同获奖者,目前担任《大湖区研究》杂志的副编辑。

### **Changwen Miao (缪昌文)**

Changwen Miao, academician of Chinese Academy of Engineering (CAE), building materials expert, professor and doctoral supervisor of Southeast University, director of the Academic Committee of Southeast University, Chief scientist of State Key Laboratory of High Performance Civil Engineering Materials, Chairman of the International Joint Laboratory for Advanced Civil Engineering Materials.

Changwen Miao is mainly involved in theoretical and technical research on civil engineering materials. And he took part in over 30 science and development projects, such as National Basic Research Program (973 program) and Key Program of National Natural Science Foundation of China. Miao Changwen has made great contribution in the research areas of key technology of crack resistance of concrete, service life extension and durability improvement of infrastructure engineering, and multifunctional materials for civil engineering. He has been awarded Science and Technological Innovation Award of The Ho Leung Ho Lee Foundation, Second Class of National Technological Invention Award, Second Class of National Technological Advancement Award (three times), First Class of Provincial and Ministerial Scientific and Technological Progress Award (seven times). In addition, Miao Changwen was authorized 82 national invention patents, published 4 monographs and more than 200

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papers, among which over 150 papers were indexed by SCI, EI or ISTP.

缪昌文，中国工程院院士，建筑材料专家，现任江苏省建筑科学研究院有限公司董事长，东南大学学术委员会主任，高性能土木工程材料国家重点实验室首席科学家，先进土木工程材料国际联合实验室主席。

缪昌文院士长期从事土木工程材料理论与工程技术应用研究，先后承担了包括国家“973”项目、国家自然科学基金重点资助项目等国家、省部级科研项目 30 余项，在混凝土抗裂关键技术的研究、重大基础设施工程服役寿命及耐久性能提升技术的研究、多功能土木工程材料的研发等方面取得了多项成果，先后获国家技术发明二等奖 1 项，国家科技进步二等奖 3 项，省部级科技进步一等奖 7 项，国家发明专利 82 项，出版专著 4 部，发表论文 200 余篇，其中 SCI、EI 或 ISTP 收录 150 余篇。

### **Xinqiang Niu (钮新强)**

Xinqiang NIU, born in Huzhou, Zhejiang province. He once served as deputy to the 13th National People's Congress, member of Chinese Academy of Engineering, a national engineering investigation and design master, senior engineer and hydraulic structure expert. Now he is dean of Changjiang Institute of Survey, Planning, Design and Research, dean of national dam safety engineering technology research center, vice chairman of Hubei Association for Science and Technology and vice director of Chinese National Committee on Large Dams.

NIU has worked in major water conservancy engineering projects design and research for many years. He has presided and participated in the design of more than 10 national major water conservancy and hydropower engineering projects such as Yangtze River Three Gorges project, Central Line of South-North Water Transfer project, Wu Dong De Hydropower Station of Jinsha River, Water Diversion Project for the Central Area of Yunnan Province (including four cities: Kunming, Qujing, Chuxiong, Yuxi) and Water Diversion Project for Han Jiang, etc. He has also presided over or participated in more than 30 national major scientific research projects and major engineering technology researches. He has made profound attainments in the fields of high dam navigation, large hydraulic structures, cross-basin and long-distance water transfer projects, ecological restoration and protection of the Yangtze River. As a result, he has made important contributions to the construction of key national projects

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and the management and protection of the Yangtze River in the new era.

He has won 5 second prize of national science and technology progress awards, 7 provincial and ministerial special awards, edited 5 national and industry standards, published 9 monographs and more than 70 academic papers. He has been awarded the National May Day Labor Medal, the National Advanced Worker, the First National Innovation Award, the National Outstanding Professional and Technical Talent, FIDIC Centennial Outstanding Consulting Engineer, the first International Outstanding Dam Engineer Award, Hubei Outstanding Contribution to Science and Technology Award and other honors.

钮新强，浙江湖州人。第十三届全国人大代表。中国工程院院士，全国工程勘察设计大师，正高级工程师，水工结构专家。现任长江勘测规划设计研究院院长、国家大坝安全工程技​​术研究中心主任、湖北省科学技术协会副主席、中国大坝工程学会副理事长。

长期从事大型水利水电工程设计和科研工作，主持和参与主持长江三峡、南水北调中线、金沙江乌东德水电站、滇中引水、引江补汉等国家重大水利水电工程设计 10 余项，主持或主参国家重大科研项目、重大工程技术研究 30 余项。在高坝通航、大型水工结构、跨流域长距离调水、长江生态修复与保护等领域造诣深厚，为国家重点工程建设以及新时期长江治理与保护做出了重要贡献。

先后荣获国家科技进步二等奖 5 项，省部级特等奖 7 项，主（参）编国家和行业标准 5 项，出版专著 9 部，发表论文 70 余篇。曾获全国五一劳动奖章、全国先进工作者、首届全国创新争先奖、全国杰出专业技术人才、FIDIC 百年优秀咨询工程师、首届国际杰出大坝工程师奖、湖北省科技突出贡献奖等荣誉。

## **Enda O'Connell**

**Emeritus Professor of Water Resources Engineering at Newcastle University**

Enda O'Connell is Emeritus Professor of Water Resources Engineering at Newcastle University, where he was the founding director of the Water Resource Systems Research Laboratory. Prior to this, he worked at the UK Institute of Hydrology, and in the Civil Engineering Department of Imperial College London.

For more than fifty years, he has contributed extensively to the international literature in the areas of stochastic rainfall modelling, distributed physically-based

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modelling of river basins, climate change impact assessment, flood risk estimation and management, and water resources management. In the field of flood risk management, he has been engaged for several years in assessing the impacts of land use management changes on flood generation at a range of scales. In the water resources management field, he led a major programme of capacity-building in Palestine over the period 1999-2005 based on a holistic Integrated Water Resources Management approach. More recently, he launched a new research programme in Earth Systems Engineering at Newcastle University, an evolving field based around a multidisciplinary approach to adaptation to climate and socio-economic change, with a focus on understanding and modelling coupled human and natural systems. This research programme is executed through the Centre for Earth Systems Engineering Research (CESER).

He is/has been a member of the editorial boards of several leading international journals, and has acted as a consultant on many national and international hydrology/water resources projects. He is the founding past President of the Hydrological Sciences Section of the European Geosciences Union, and a Fellow of the UK Royal Academy of Engineering. In 2017, he received the European Water Resources Association's Certificate of Honour.

In the period 2009-2011, he has been an Honorary Professor in the Water Resources Department at the Institute of Water Resources and Hydropower Research (IWHR) in Beijing. In 2013, he was appointed a De Tao Master of Hydrology and Water Resources Management, and in 2014, an Honorary Professor at the Nanjing Hydraulic Research Institute (NHRI).

**Enda O'Connell**, 英国皇家工程院院士，是纽卡斯尔大学水资源工程名誉教授，水资源系统研究实验室创始人，此前，曾就职于英国水文研究所和伦敦帝国学院土木工程系。

50 多年来，在随机降雨模型、河流流域分布式物理模型、气候变化影响评估、洪水风险估计和管理以及水资源管理等领域的国际文献中做出了巨大的贡献。在洪水风险管理领域，多年来一直从事评估土地使用管理变化对不同规模洪水生成的影响。在水资源管理领域，1999-2005 年期间，领导了一个以水资源综合管理整体方法为基础的巴勒斯坦能力建设重大方案。近期，在纽卡斯尔大学启动了一个新的地球系统工程研究计划，该领域是一个不断发展的领域，以适应气候和社会经济变化的多学科方法为基础，重点是对人与自然系统的耦合进行理解和建模。该研究计划通过地球系统工程研究中心（CESER）执行。

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他是多个国际知名期刊编委会成员，担任许多国家和国际水文/水资源项目顾问，欧洲地球科学协会水文科学分会前任创始主席，英国皇家工程院院士。2017 年获欧洲水资源协会荣誉证书。

2009-2011 年期间，任中国水利水电科学研究院 (IWHR) 水资源系名誉教授，2013 年被授予德稻水文与水资源管理硕士，2014 年被聘为南京水利科学研究院(NHRI)名誉教授。

## **Hans Paerl**

Hans W. Paerl is the Kenan Professor of Marine and Environmental Sciences at the University of North Carolina's Institute of Marine Sciences. He will serve as the Senior Principal Investigator of this project His collaborative research addresses microbially-mediated nutrient cycling and primary production dynamics, environmental controls and management of harmful algal (specifically cyanobacterial) blooms and their toxins, and assessing effects of human and climatic alterations of water quality and sustainability of inland, estuarine and coastal marine waters in the US and globally (see: <https://paerllab.web.unc.edu/research/>). He has published over 350 peer reviewed articles and book chapters on these subjects. His work has been supported by the National Science Foundation, EPA, NIH, NOAA/NC Sea Grant, USDA, The NC Water Resources Research Institute, various State environmental agencies and private foundations, the Chinese Academy of Sciences and Ministry of Science and Technology and the Netherlands Academy of Sciences. He collaborates with numerous scientists and students at the Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences. In North Carolina, he manages several estuarine water quality monitoring and assessment programs, including the Neuse River Estuary (NC) Modeling and Monitoring Program, ModMon (<https://paerllab.web.unc.edu/projects/modmon/>) and the Ferry-based Water Quality Monitoring Program for the Pamlico Sound System, FerryMon (<https://paerllab.web.unc.edu/projects/ferrymon/>). He has supervised over 70 Graduate Students, 12 Post-Docs and advises undergraduate students at UNC-CH as well as other institutions. He received the 2003 G. Evelyn Hutchinson Award from the Association of the Sciences of Limnology and Oceanography (ASLO), and the 2011 Odum Award from the Coastal and Estuarine Research Federation (CERF) for addressing the causes, consequences and controls of eutrophication in aquatic ecosystems. In 2015, he was named a Fellow of the American Geophysical Union



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(AGU) , and in 2017 he was named a fellow of the Royal Dutch Academy of Sciences and holds a joint faculty position at Hohai University, Nanjing, China.

汉斯·帕尔 (Hans W. Paerl) 是北卡罗来纳大学海洋科学研究所的海洋和环境科学肯南教授。他将担任该项目的高级首席研究员。他的合作研究涉及微生物介导的营养循环和初级生产动力学、有害藻类(特别是蓝藻)水华及其毒素的环境控制和管理; 评估人类和气候变化对美国 and 全球内陆、河口和沿海海洋水域水质和可持续性的影响(见:<https://paerllab.web.unc.edu/research/>)。他已经发表了 350 多篇关于这些主题的同行评议文章和书籍章节。他的工作得到了国家科学基金会、环保局、国家卫生研究院、美国国家海洋和大气局/北卡罗来纳州海洋基金、美国农业部、北卡罗来纳州水资源研究所、各种国家环境机构和私人基金会、中国科学院、科技部和荷兰科学院的支持。他与中国科学院南京地理与湖泊研究所的许多科学家和学生合作。在北卡罗来纳州,他管理着几个河口水质监测和评估项目,包括北卡罗来纳州纽斯河河口建模和监测项目 ModMon(<https://paerllab.web.unc.edu/projects/modmon/>)和基于渡船的帕姆利科湾系统水质监测项目 FerryMon([https://paerllab.web.unc.edu/projects/Ferry\\_mon/](https://paerllab.web.unc.edu/projects/Ferry_mon/))。他曾指导过 70 多名研究生, 12 名博士后, 并为北卡罗来纳大学和其他机构的本科生提供指导。他因解决了水生生态系统富营养化的原因、后果和控制问题, 获得了美国海洋与湖沼学会 (ASLO) 颁发的 2003 年 G. Evelyn Hutchinson 奖和海岸和河口研究联合会 (CERF) 颁发的 2011 年奥德姆奖。2015 年, 他被任命为美国地球物理联盟(AGU)院士; 2017 年, 他被任命为荷兰皇家科学院院士, 并任中国南京河海大学担任联合教师职务。

### **Liliang Ren (任立良)**

Prof. **Liliang Ren** got his BSc at Dept. of Geography, Nanjing University, China, MSc at Dept. of Engineering Hydrology, National University of Ireland, Galway with 1st Class Honor, PhD at Dept. of Hydrology and Water Resources, Hohai University, China. Prof. Ren served as the Dean of the College of Hydrology and Water Resources at Hohai University (2004-2010), Vice-President of International Association of Hydrological Sciences (IAHS, 2011-2015), Vice-President of International Commission of Water Resources Systems of IAHS (2007-2011), Vice-President of Chinese National Committee for IAHS (2007-2015), member of Chinese National Committee for IHP of UNESCO (2008-2012), member of Open Panels of CHy (Commission for Hydrology) Experts of WMO, and UNESCO Co-Chair in Sustainable

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Water Management at Hohai University. Also he has been a member of International Board of Advisors for ASCE Journal of Hydrologic Engineering in USA, a member of Editorial Boards of Hydrology Research (Formerly Nordic Hydrology) in UK, Water Science and Engineering, and Journal of China Hydrology. Prof. Ren has extensive research and teaching background in Physical Geography, Fundamental of Hydrology, and Introduction to Environmental Sciences. In recent twenties years he focuses his research on mechanism and methodology of hydrologic response and water security in a changing environment. He has successfully supervised and examined doctoral research programs and has had a significant role in research grants and consultancies. He has made 10 books/ proceedings published and over 150 peer-reviewed articles published in international/ domestic journals. He was Leading Professor of Excellent Innovative Research Team in Universities of Jiangsu Province, focusing on floods and droughts disasters mechanism under climatic change background. He obtained 1<sup>st</sup> Class Sci-Tech Progress Award by the People's Government of Jiangsu Province as the PI of Project 'Physical Processes of Catchment Hydrology and Digital Modeling in 2009, 1<sup>st</sup> Class Natural Science Award by the Ministry of Education of China as the PI of Project 'Driving mechanism and response mechanism of watershed change on hydrological processes' in 2014, 2<sup>nd</sup> Class Natural Science Award by the Ministry of Education of China as the PI of Project 'Evolution processes and mechanisms of key hydrologic regimes under a changing environment' in 2018.

任立良 (1963.12- ), 男, 教授, 河海大学教授、博士生导师, 国务院政府特殊津贴专家 (2009), 教育部霍英东教育基金获得者 (1996), 江苏高校优秀科技创新团队带头人 (2007), 江苏省“青蓝工程”省级中青年学术带头人 (2002)。曾任国际水文科学协会 (IAHS) 副主席、IAHS 国际水资源系统委员会 (ICWRS) 副主席、IAHS 中国委员会副主席, IAHS 新十年 (2013-2022) 科学计划“Panta Rhei”共同发起人。现任 IAHS-Panta Rhei 中国工作委员会副主席 (2016- ), IGBP-iLEAPS 中国委员会副主席 (2015- ), 美国 ASCE 期刊 Journal of Hydrologic Engineering、国际水协会/英国水文学会/北欧水文协会期刊 Hydrology Research、水资源保护等期刊编委。

主要研究水循环基础理论与过程模拟方法、气候变化背景下极端事件演变与预估、陆面变化的水文响应、中小河流突发性洪水预警预报、水文干旱驱动机制与定量表征, 承担国家 973/863 计划、国家科技支撑计划、国家重点研发计划、国家自然科学基金委重大项目/面上项目/国际合作项目、国家发改委/科技部中

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国清洁发展机制基金等课题 80 余项，在水科学进展、农业工程学报、Water Res. Res.、Remote Sensing of Envir.、Geophys. Res. Letters、J. Geophys. Res.、J. Hydrometeorol.、J. Hydrol.、Hydrol. Process.等期刊发表高质量论文 150 余篇，出版专著/教材/论文集 10 部，授权发明专利 5 项。主持的科研成果“流域水文物理过程及数字模拟”获 2009 年江苏省科技进步一等奖(自然科学类)、“流域水文过程变化的驱动机制与响应机理”获 2014 年教育部自然科学一等奖、“变化环境下关键水文情势演变过程与机理”获 2018 年教育部自然科学二等奖，参与的科研成果“中小河流突发性洪水监测预报预警关键技术及应用”获 2016 年大禹水利科学技术二等奖，参与的教学成果获国家级二等奖 1 项、省级一等奖 2 项。

## John Smol

JOHN P. SMOL, OC, PhD, FRSC, FRS is professor of biology at Queen's University (Kingston, Ontario), where he also holds the *Canada Research Chair in Environmental Change*. Smol founded and co-directs the Paleoecological Environmental Assessment and Research Lab (PEARL), a group of ~40 students and other scientists dedicated to the study of long-term global environmental change, and especially as it relates to lake ecosystems. John has authored >620 journal publications and chapters since 1980, as well as completed 21 books (with 3 more in preparation). Much of his research deals with the impacts of climatic change, acidification, eutrophication, contaminant transport, and other environmental stressors. John is a frequent commentator on environmental issues for radio, television, and the print media. Smol was the founding Editor of the *J. Paleolimnology* (1987-2007) and is current Editor of *Environmental Reviews*. Since 1990 John has received 6 honorary doctorates and has been awarded >70 research and teaching awards and fellowships, including the 2004 NSERC Herzberg Gold Medal as Canada's top scientist or engineer and the *International Ecology Institute Prize*. In 2012, the Chinese Academy of Sciences named Smol an *Einstein Professor*. Amongst his 14 teaching and outreach awards, he was named a *3M Teaching Fellow* and, following a nation-wide search, *Nature* chose John as *Canada's Top Mid-Career Science Mentor*. In 2013, he was named an Officer of the *Order of Canada* for his environmental work and in 2018 a *Fellow of the Royal Society (London)*. He is currently President of the Academy of Science, Royal Society of Canada.

约翰·P·斯莫尔，加拿大勋章获得者，博士，英国皇家化学学会会士，皇

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家学会会员，安大略省金斯敦女王大学生物学教授，也是加拿大环境变化研究首席科学家。斯莫尔创立并共同领导古生态环境评估和研究实验室（PEARL），这个实验室小组成员包括约 40 名学生和其他科学家，致力于研究全球环境长期变化，特别是与湖泊生态系统有关的变化。自 1980 年以来，约翰已撰写 620 余篇期刊文章，并完成 21 本书籍的写作（3 本在筹备中）。他的大部分研究涉及气候变化、酸化、富营养化、污染物运输和其他环境压力的影响。约翰常作为环境问题评论员出现在广播、电视和印刷媒体中。约翰是 *J. Paleontology* (1987-2007) 的创刊编辑，现在是《环境评论》的编辑。自 1990 年以来，约翰已获得 6 个荣誉博士学位，并获得 70 多项研究和教学奖及奖学金，包括作为加拿大顶级科学家、工程师获得 2004 年 NSERC 赫兹伯格金奖和国际生态学会奖。2012 年，中国科学院任命斯莫尔为爱因斯坦讲席教授。在获得的 14 个教学和推广奖项中，他被任命为 3M 教学助理，经过全国海选，《自然》杂志评选约翰为加拿大顶级在职科学导师。2013 年，因环境工作被授予加拿大勋章，2018 年被评为英国皇家学会院士（伦敦）。他目前是加拿大皇家学会科学院院长。

### **Wenchao Sun (孙文超)**

Sun Wenchao is an associate professor and doctoral supervisor at Beijing Normal University, and the deputy director of the Institute of Hydrology and Water Resources, Institute of Water Science. He received a doctor's degree of Engineering in Integrated Basin Management from National Yamanashi University, Japan, a master's degree in Environmental Science from Beijing Normal University, and a bachelor's degree in Environmental Engineering from China University of Geosciences (Beijing). He is mainly engaged in the research of watershed hydrological model and its uncertainty analysis, integrated simulation and management of basin water quantity and quality processes, remote sensing observation of surface water, and simulation and analysis of basin ecohydrological processes. He led more than ten national and provincial level projects, including one National Key Research and Development Program project, three National Natural Science Foundation of China. He has published one academic monograph and more than 60 papers, including more than 20 papers in *Water Research*, *Remote Sensing of Environment*, and other leading international journals. He was awarded the second prize of Scientific and Technological Progress by the Ministry of Education, the first prize of Geodesy Photogrammetry and Cartography Science and Technology by the Chinese Society of Geodesy Photogrammetry and Cartography, and

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the Best Paper of the Year by the Water Engineering Committee of the Civil Engineering Society of Japan.

孙文超，北京师范大学副教授，博士生导师，水科学研究院水文水资源所副所长。日本国立山梨大学流域综合管理专业工学博士，北京师范大学环境科学专业硕士，中国地质大学（北京）环境工程专业学士。主要从事流域水文模型及其不确定性分析、流域水量水质过程综合模拟与管理、地表水遥感观测、流域生态水文过程模拟与分析等方向研究。主持国家重点研发计划课题一项、国家自然科学基金三项等十余项国家级省部级课题。发表论文 60 余篇，其中在《Water Research》、《Remote Sensing of Environment》等国际知名期刊发表论文 20 余篇，出版学术专著一部。获教育部科技进步二等奖两项、中国测绘学会测绘科学技术一等奖一项、日本土木学会水利工程委员会年度最佳论文奖等奖励。

### **Qihong Tang (汤秋鸿)**

Dr. Tang is the Director of the Key Laboratory of Water Cycle and Related Land Surface Processes and a professor at the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences. He received his bachelor's degree in hydraulic engineering (2001) and his master's in hydrology and water resources (2003) from Tsinghua University. He received his PhD in civil engineering from the University of Tokyo (2006).

汤秋鸿，水循环及相关地表过程重点实验室主任，中国科学院地理科学与自然资源研究所教授，拥有清华大学的水利工程学士学位（2001 年）和水文学与水资源硕士学位（2003 年），于 2006 年获得东京大学的土木工程博士学位。

### **Fuqiang Tian (田富强)**

Dr. TIAN Fuqiang is a tenured full Professor in Department of Hydraulic Engineering, Tsinghua University. He serves as the Chairman of Panta Rhei Decadal Initiative of IAHS (2019-2021), the editor of Hydrology and Earth System Sciences and associate editor of Journal of Hydrology. His research includes hydrological forecasting in ungauged and changing environment, water resources management in transboundary basins and arid areas. He has been awarded the Water Saving Technology Award by ICID in 2019 based on his achievement in water and salt regulation scheme

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under mulched drip irrigation in arid regions. He has published more than 150 peer-reviewed journal papers.

田富强，清华大学水利水电工程系教授，研究生院副院长，国家自然科学基金委杰出青年科学基金获得者，国际水文科学协会 *Panta Rhei* 十年研究计划主席、国家灌排委员会副秘书长、《*Hydrology and Earth System Sciences*》和《*Journal of Hydrology*》编委，获 2019 年国际灌排协会节水技术奖、第六届水利青年科技英才等荣誉。主要研究领域包括：1) 流域水文机理和预报，在华北土石山区和青藏高原源头流域开展水文实验机理研究，并开展宏观水文本构关系、分布式水文模型、径流和洪旱预报等的理论和应用研究；2) 跨境河流水资源管理，开展跨境河流的水安全形势评估、上下游利益共享、国际水法等研究；3) 农田灌溉排水及其可持续性研究，重点在干旱区绿洲开展农田生态水文过程机理、节水灌溉及其环境效应和可持续性研究。完成了干旱区膜下滴灌棉田水盐综合调控技术、寒旱区流域水资源系统响应与基于生态经济的水资源合理调控、基于代表性单元流域的分布式水文模型等项成果，获大禹水利科技一等奖、教育部科技进步一等奖和自然科学一等奖各 1 项，出版专著 3 部、教材 1 部，发表论文 150 余篇。

### **Yindong Tong (童银栋)**

Tong Yindong is an associate professor of Tianjin University Environment School. He graduated from Peking University with a PhD in environmental geography in 2014. He was selected as "Bei Yang Scholar" in Tianjin University, young talent in science and technology, and admitted by the 131 innovative talent training project in Tianjin. He has been involved in macroscopic material flow analysis, mechanism process model development and chemical analysis of water environment, analyzing the circulation mechanism of geochemical elements such as nitrogen, phosphorus and mercury in water environment, and explaining the influence mechanism of regional human activity changes on water nutrients and toxic substances water environment. He has published 33 SCI-indexed papers as first or corresponding author in NG, PNAS, ES&T, WR, ESTL, etc. His research results have been reported by the Ministry of Ecology and Environment, Guangming Daily, China Science News, Reuters UK, PBS, etc. He works as the executive director of Tianjin China-Australia Research Centre for Environment and Sustainable Urban Development, a visiting researcher at the University of South Australia, editorial board member of *Front. Environ. Sci. and Eng.* What's more, he is

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also a editorial board member of *Lake Science* and *Agricultural Resources and Environment*, etc.

童银栋，天津大学环境学院副教授，2014 年博士毕业于北京大学环境地理学专业；入选天津大学“北洋学者”、天津市青年科技优秀人才、天津市 131 创新型人才培养工程等。围绕宏观物质流分析、机理过程模型开发与水环境化学分析，剖析氮、磷、汞等生物地球化学元素在水环境的循环机制，阐释区域人类活动变化对水体营养物和有毒物水生态风险的影响机制。以第一或通讯作者在 NG、PNAS、ES&T、WR、ESTL 等发表 SCI 收录论文 33 篇；成果被生态环境部、《光明日报》、《中国科学报》、英国路透社、美国公共电视台等报道；担任天津市中澳城市环境可持续发展中心执行主任、澳大利亚南澳大学客座研究员、Front. Environ. Sci. Eng. 青年编委、《湖泊科学》编委、《农业资源与环境学报》编委等。

## **Narendra Tuteja**

Dr Narendra Kumar Tuteja, Bureau of Meteorology

Narendra Kumar Tuteja has over thirty years of multi-disciplinary scientific and engineering experience in industry, applied research and academia in hydrology, water resources and natural resource management across Australia, Europe and South Asia. Narendra has supported development of policies and decision making in the water sector. He currently works as Hydrology Planning Lead at the Australian Bureau of Meteorology. Since 2009, he has guided development and delivery of delivering 7-day and seasonal streamflow forecasts, long term water availability trends and water quantity and quality data services to support reporting on condition of the Great Barrier Reef. He has worked closely with regulators, environmental managers and water utilities across all jurisdictions in Australia.

纳伦德拉·库马尔·图特加在澳大利亚、欧洲和南亚的水文、水资源和自然资源管理行业、应用研究和学术领域拥有超过 30 年的多学科科学和工程经验。纳伦德拉对水资源部门制定政策和决策起到支持作用。他目前在澳大利亚气象局担任水文规划负责人。自 2009 年以来，他指导开发和交付了提供 7 天和季节性径流预报、长期水资源供应趋势以及水量和水质数据服务，以支持对大堡礁状况的报告。他与澳大利亚所有司法管辖区的监管机构、环境管理人员和水务公司密切合作。

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## **Annan Wang (汪安南)**

Annan Wang graduated from School of Water Resources and Hydropower Engineering with a doctoral degree, and he is a professor-level senior engineer. Since being involved in work, he has successively worked in the Huaihe River Commission of the Ministry of Water Resources of the P.R.C., the Department of Construction and Management, Ministry of Water Resources of the P.R.C., and the Planning Department, Ministry of Water Resources of the P.R.C. Now, he is the Chief Planner of the Ministry of Water Resources.

Annan Wang has been engaged in the planning, construction and management of water conservancy for long term, and participated in the top-level design, policy making, and macroscopic decision making on the national water conservancy planning, so he is familiar with the reform and development of water conservancy nationwide, and meanwhile, he has rich experience in grass-roots work. He has good professional quality and high theoretical level.

汪安南毕业于武汉水利水电学院，博士研究生学历，教授级高级工程师，自参加工作以来，先后在水利部淮河水利委员会、水利部建设与管理司、规划计划司工作，现任水利部总规划师。

汪安南长期从事水利规划计划、建设管理工作，参与全国水利规划顶层设计、政策制定和宏观决策，对全国水利改革发展情况较为熟悉，同时，也有丰富的基层工作经验。具有很好的专业素养和较高的理论水平。

## **Guoqing Wang (王国庆)**

Prof. Dr. Wang Guoqing (1971.4-), professor of Nanjing Hydraulic Research Institute (NHRI), chief engineer of Research Center for Climate Change (RCCC), Ministry of Water Resources (MWR), and acts as vice-president of International Commission of Surface Water, International Association of Hydrological Sciences (ICSW-IAHS). He has more than 20-year experiences of scientific research on broad fields of hydrology, climate change, water resources, flood and drought risk, and critical zone, etc., has been leading over 30 national scientific and technical programs, and awarded the China's National/Ministerial Scientific and Technological Progress Awards 7 times. Dr. Wang owns 15 China's national patents and registered software,



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published 4 academic books and over 200 research papers (>70 SCI indexed papers) in peer-viewed journals. He is one of the leading authors of China's national water and climate assessment reports and international expert reviewer of IPCC-AR5, and AR6.

王国庆(1971.04—), 博士, 南京水利科学研究院教授级高级工程师(二级), 水利部应对气候变化研究中心副总工, 国家 “万人计划” 领军人才, 国务院政府特殊津贴专家。兼任国际水文科学协会地表水专委会 (IAHS-ICSW) 副主席, 是科技部重点领域创新团队 “水利应对气候变化研究创新团队” 负责人。主要从事气候变化, 水文水资源, 关键带水文过程等方面研究, 承担自然科学基金重点项目、国家重大研发计划等项目 30 余项; 发表论文 200 余篇, 其中, SCI 源刊论文 70 余篇; 获国家授权发明专利/软件著作权 15 项, 国家和省部级以上奖励 7 项。

### **Huimin Wang (王慧敏)**

Huimin Wang, Distinguished Professor of Cheung Kong Scholars, Doctor, Doctoral Supervisor. She is now the Deputy Director of the State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering and the Editor in Chief of Journal of Hohai University(Philosophy and Social Sciences). She has been selected into the “Program for New Century Excellent Talents in University of China” of the Ministry of Education, the Young and Middle-aged Leading Scientific and Technological Talents under the “333 High-Level Talents Cultivation Project” of Jiangsu Province, and won the honorable titles such as “Young and Middle-aged Expert with Outstanding Contributions of Jiangsu Province” and National Female Model in “Fostering Achievements”. She is an expert enjoying the governmental special allowances provided by the State Council, and the leader of the Excellent Innovation Team of Philosophy and Social Sciences of Colleges and Universities in Jiangsu. She doubles as a member of the Teaching Steering Committee of Management Science and Engineering in Higher Education of the Ministry of Education, the executive member of Production and Operations Management Society (POMS), Deputy Director General of the Scientific Steering Committee of the International Conference on Water Resources and Environment Research (ICWRER), the Managing Director of Society of Management Science and Engineering of China, the Managing Director of China Soft Science Institute, and expert of the Expert Review Panel of National Natural Science Foundation of China, etc. She is a member of the editorial board of more than

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10 international and domestic periodicals, including the *Frontiers of Engineering Management*, and the *Lowland Technology International Journal*. She has been engaged in the research on management system engineering, the operation and management of complicated resource systems, the big data-driven disaster risk management and emergency management, the systems and policies for management of resource environment, etc. for long term. She is the chief expert in projects under national key research and development programs, and the chief expert in national major projects of social sciences. At present, she is in charge of the key subjects of “Cloud Platform for Urban Flood Disaster Warning and Panoramic Decision Making” in the major research program of “research on the big data-driven management and decision making” supported by the National Natural Science Foundation of China, the project of “Key Technology for Coordinated Security Guarantee for Water- Energy- Food” under the National Key Research and Development Program, etc., and has completed more than 30 projects under the National Scientific and Technological Support Program, key and international cooperative projects supported by the National Natural Science Foundation of China, key and major projects supported by the National Social Sciences Foundation. Also, she has issued more than 150 journal articles, published 7 academic works, and won more than 10 awards, including the first and second prizes of the provincial and ministerial awards for scientific and technological progresses, and the philosophy and social sciences award.

王慧敏，长江学者特聘教授，博士，博士生导师。现任水文水资源与水利工程科学国家重点实验室副主任，《河海大学学报（哲学社会科学版）》主编。入选教育部“新世纪优秀人才支持计划”、江苏省“333 高层次人才培养工程”中青年科技领军人才，获“江苏省有突出贡献的中青年专家”、全国“巾帼建功”标兵等荣誉称号，国务院政府特殊津贴专家，江苏高校哲学社会科学优秀创新团队带头人。兼任教育部高等学校管理科学与工程类教学指导委员会委员，国际生产与运作协会（POMS）执行委员，国际水资源与环境研究会（ICWRER）科学指导委员会副理事长，中国管理科学与工程学会常务理事、中国软科学研究会常务理事，国家自然科学基金委专家评审组专家等职。任《*Frontiers of Engineering Management*》、《*Lowland Technology International journal*》等 10 多家国际国内期刊编委。长期从事管理系统工程、复杂资源系统运行与管理、大数据驱动的灾害风险管理与应急管理、资源环境管理制度及政策等方面的研究。国家重点研发计划项目首席专家，国家社科重大项目首席专家。目前主持国家自然科学基金重大

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研究计划“大数据驱动的管理与决策研究”重点课题“城市洪涝灾害预警与全景式决策云平台”、国家重点研发计划项目“水-能源-粮食协同安全保障关键技术”等,完成国家科技支撑计划项目、国家自然科学基金重点及国际合作项目等、国家社会科学基金重大重点项目等 30 余项。发表期刊论文 150 余篇,出版学术著作 7 部,获省部级科技进步奖、哲学社会科学奖一、二等奖 10 余项。

### **Jianhua Wang (王建华)**

Jianhua Wang, born in 1972, Ph.D., Senior Engineer (professor), PhD Supervisor, is currently the Vice President of China Institute of Water Resources and Hydropower Research (IWHR), Director of the Water Resources and Water Ecological Engineering Technology Center, and Deputy Secretary-General of the Science and Technology Commission, Ministry of Water Resources, Chairman of the Special Committee on Water and Climate Change, Asia Water Council (AWC), and Director of the Technical Committee on Water Issues, Chinese Society for Sustainable Development, etc.

He is mainly engaged in research on basic theories of water cycle, water resources planning and management, comprehensive water conservation and water ecological protection. He has presided over national key research and development projects, projects under 973 Program, major scientific and technological support projects, and National Outstanding Youth Science Fund projects of National Natural Science Foundation of China; participated in the top-level design of national water resources public policies, as well as the overall planning of the National Water Network and South-to-North Water Diversion Projects; led the completion of the water resources security plan of the Xiong'an New Area, the special water resource plan under the territorial space planning of the Yangtze River Economic Belt, and the coordinated control plan for five rivers in the Yellow River estuary, with innovative breakthroughs made in theories and technical methods of integrated water resources management.

He has won 1 first prize, 2 second prizes of the National Science and Technology Progress Award, 1 Global Green Technology Award for Human Settlements, and 10 provincial and ministerial first prizes; published more than 200 papers, and obtained more than 40 invention patents, with a number of recommendations approved or adopted by national leaders. He was selected as a leading talent in scientific and technological innovation under the National “Ten Thousand Talents Program” and was

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awarded the titles of “National Outstanding Scientific and Technological Worker” and “Young and Middle-aged Expert with Outstanding Contributions”.

王建华，1972 年生，博士，正高级工程师，博导，现为中国水利水电科学研究院副院长、水利部水资源与水生态工程技术中心主任，兼水利部科技委副秘书长、亚洲水理事会（AWC）水与气候变化特别委员会主席、中国可持续发展研究会水问题专委会主任等。

主要从事水循环基础理论、水资源规划与管理、综合节水及水生态保护等研究，主持完成国家重点研发计划项目、973 课题、科技支撑计划重大课题、国家自然科学基金杰出青年基金项目研究；深度参与国家水资源公共政策顶层设计及国家水网与南水北调工程总体规划，主持完成雄安新区水资源安全保障规划、长江经济带国土空间规划水资源专项规划、黄河口五水统筹治理规划，在水资源综合管理理论与技术方法方面有创新突破。

获国家科技进步一等奖 1 项、二等奖 2 项，全球人居环境绿色技术奖 1 项，省部级一等奖 10 项。发表论文 200 余篇，获发明专利 40 余项，多项建议被国家领导人批示或被采用。入选国家“万人计划”科技创新领军人才，被授予全国优秀科技工作者、国家有突出贡献中青年专家等称号。

## **Quan Jun Wang**

Professor Wang, faculty of Engineering and Information Technology, the University of Melbourne, Australia. He obtained his BE in 1984 from Tsinghua University in Beijing with an “Outstanding Graduate” Award. In Ireland, he completed his MSc in 1987 and PhD in 1990 at University College Galway. He worked briefly as a postdoctoral fellow at University College Dublin, before returning to University College Galway to take up a lecturer position.

In 1994, Professor Wang came to Australia and joined the University of Melbourne, where he worked as a lecturer and senior lecturer. In 1999, he took up a principal scientist position at the Victorian Department of Primary Industries and led an irrigation research program at Tatura. In 2007, he joined CSIRO Land and Water as an Office of the Chief Executive Science Leader and senior principal research scientist, where he built from scratch a globally renowned water forecasting research team. In February 2017, he returned to the University of Melbourne as a teaching and research professor.

While at CSIRO, Professor Wang led the research and development that

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underpinned the operational services by the Bureau of Meteorology of short-term and seasonal streamflow forecasting. He was a recipient of the 2014 GN Alexander Medal by the Institution of Engineers and the 2016 CSIRO Medal for Impact from Science. Professor Wang was from 2016-2021 a co-chair of HEPEX, an international community for research and practice of ensemble hydrological forecasting (<http://www.hepex.org>). He is a Distinguished Visiting Professor of Tsinghua University and the Chinese Academy of Sciences.

In 2018, Professor Wang led an independent expert review for the Murray Darling Basin Authority on the impact on river flow volume of the \$4 billion government investment in irrigation efficiency projects under the Murray-Darling Basin Plan. In 2019-20, he led an expert review of the Bureau of Meteorology's hydrological modelling approaches under its Public Service Transformation for Resilient National Operations.

Professor Wang has published over 120 journal papers ([Google Scholar QJ Wang](#)). His current research interests include ensemble hydroclimate forecasting, ensemble flood inundation forecasting, Bayesian statistical modelling, hydrological modelling and predictions, irrigation, and water resources management.

王博士现任澳大利亚墨尔本大学工程与信息技术学院教授。于 1984 年在北京清华大学取得学士学位，并获得“优秀毕业生”奖。在，他分别于 1987 年和 1990 年在爱尔兰高威大学学院完成硕士和博士学位。他曾在都柏林大学学院短暂地做过博士后，后又回到高威大学学院担任讲师。

1994 年，王教授加入澳大利亚墨尔本大学，先后担任讲师和高级讲师。1999 年，他在维多利亚第一产业部门担任首席科学家一职，并在塔图拉领导一个灌溉研究项目。2007 年，他加入联邦科学与工业研究组织（CSIRO）土地与水务部，担任首席执行官科学主管和高级首席研究科学家，从零开始建立了一个全球知名的水资源预测研究团队。2017 年 2 月，他回到墨尔本大学担任教学和研究教授。

在联邦科学与工业研究组织（CSIRO）期间，王教授领导了气象局开展短期和季节性流速预报业务服务的基础研究和开发工作。他曾获得 2014 年工程师学会颁发的 GN Alexander 奖章和 2016 年 CSIRO 颁发的科学影响奖章。王教授于 2016-2021 年担任水文集合预报实验（HEPEX）(<http://www.hepex.org>) 的联合主席，HEPEX 是一个研究和实践集合式水文预报的国际社区。他是清华大学和中国科学院的特聘客座教授。

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2018 年，王教授为墨累-达令流域委员会主持了一项独立的专家评审，评审内容为墨累-达令流域计划中政府投资 40 亿美元的灌溉效率项目对河流流量的影响。2019-20 年，他主持了气象局在其 "公共服务转型促进国家弹性运行 " 下的水文模型方法的专家评审。

王教授已发表期刊论文 120 余篇 (Google Scholar QJ Wang)。他目前的研究兴趣包括趣包括集合式水文气候预测、集合式洪水淹没预测、贝叶斯统计建模、水文建模和预测、灌溉和水资源管理。

### **Wanzhan Wang (王万战)**

Wang Wanzhan, Professor, working for Yellow River Institute of Hydraulic Research, advisor for the master students in the field of hydraulic engineering of North China University of Water Resources and Electric Power. His research interests: 1) to explore how the Lower Yellow River channel and the estuarine channel morphologically change using field data and the results of numerical modeling of hydrodynamics and morph-dynamics in the riverine, estuarine and coastal areas. 2) to investigate how to manage river basin and sea in an integrated approach. The paper titled Study on Creating an Integrated Management Strategy for the Yellow River Delta and Its Ambient Sea Area (2016) is part of the China Oceanic Technology Strategies. He was awarded the 1st Prize for scientific and technological progress by the Ministry of Water Resources of China in 1997.

王万战，黄河水利科学研究院教授，华北水利电力大学水利工程专业硕士生导师，研究兴趣有：1. 利用野外数据以及黄河，河口和沿海地区水动力和形态动力学的数值模拟结果，探索黄河下游河道和河道的形态变化。2. 研究如何以综合方式管理流域和海洋。其论文“研究制定黄河三角洲及其周围海域综合管理战略”（2016 年）是《中国大洋技术战略》的一部分。Wang 于 1997 年被中国水利部授予科技进步一等奖。

### **Shiqiang Wu (吴时强)**

Dr. Wu is a professor with a PhD in hydraulics and river dynamics with Nanjing Hydraulic Research Institute. His research areas include the research of river and lake system connection and water safety guarantee, urban water environment improvement,

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basin flood control risk analysis and flood control impact assessment, high dam flood discharge energy dissipation and atomization, etc. He has won 3 Second Prizes of National Science and Technology Progress, published more than 160 papers, 11 monographs, 2 specifications and 10 invention patents. He presided over more than 200 national scientific and technological research projects, such as National Programs for Science and Technology Development, National High-tech R&D Program of China (863 Program), the National Water Pollution Control and Management of Science and Technology Major Project, National Key Research and Development Project. He is a member of the editorial board of *Advances in Water Science* and *Hydro-Science and Engineering*.

吴时强，教授，南京水利科学研究院水力学及河流动力学专业博士。主要从事河湖水系连通与水安全保障、城市水环境提升、流域防洪风险分析及防洪影响评价、高坝泄洪消能与雾化方面的研究。获国家科技进步二等奖 3 项，发表论文 160 余篇，专著 11 本，规范 2 部，发明专利 10 项。主持包括国家科技攻关、重大水专项、863 计划、重点研发计划以及国内外重大工程科研项目 200 多项。任《水科学进展》、《水利水电工程学报》等期刊编委。

### **Xinghui Xia (夏星辉)**

Xinghui Xia, female, professor, doctoral supervisor, Distinguished Professor of Cheung Kong Scholars, Ministry of Education, winner of the National Science Foundation for Distinguished Young Scholars of China, and leader of the group in the direction of innovation research supported by National Natural Science Foundation of China. She is mainly engaged in the research on the water and soil environment in watersheds, focusing on the interaction of nutrient elements such as water-sand-pollutants / carbon and nitrogen, the morphology and bioavailability of pollutants, and the impact of global changes on the quality of soil and water environment. She has ever made academic visits to the Massachusetts Institute of Technology, the Imperial College London, and the University of Regina in Canada. Now, she is a Deputy Director Member of the Environmental Geoscience Branch, and a Deputy Director Member of the Special Committee on Sediments of the Chinese Society for Environmental Sciences, and serves as the subeditor of the SCI periodicals *Journal of Environmental Informatics* and *Bulletin of Environmental Contamination and Toxicology*. She is in charge of more than 30 projects, including projects under the national key research and

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development programs, national “973” topic, key projects, surface projects and international cooperative projects supported by National Natural Science Foundation of China. She has issued more than 230 journal articles, including more than 120 papers issued in SCI periodicals such as *Nature Geoscience*, *Environmental Science & Technology*, *Water Research*, *Journal of Hydrology*, *Global Biogeochemical Cycles* as the first/ corresponding author, and has been selected into the list of Elsevier Chinese Highly Cited Scholars in Environmental Field successively. She has won the second prize of the National Award for Natural Sciences (ranking the 1st place), the second prize of the National Award for Scientific and Technological Progresses, the first prize of Beijing Award for Natural Sciences, the first prize of Award for Natural Sciences and the first prize of Award for Scientific and Technological Progresses of the Ministry of Education. Meanwhile, she has won “Mao Yisheng Award for Youth Science and Technology in Beijing” and “China Youth Science and Technology Award”, and has been selected into “The Project of 100 Leading Talents Cultivation for Science and Technology in Beijing”, “Young and Middle-aged Leading Scientific and Technological Talents” of the Ministry of Science and Technology, and “New Century Excellent Talents Support Program” of the Ministry of Education.

夏星辉，女，教授，博士生导师。教育部长江学者特聘教授、国家杰出青年基金获得者、国家自然科学基金委创新研究群体方向带头人。主要从事流域水土环境研究，重点研究水-沙-污染物/碳氮等营养元素的相互作用、污染物的形态和生物有效性，以及全球变化对水土环境质量的影响。曾在美国麻省理工学院、英国帝国理工学院和加拿大里贾纳大学进行学术访问。现任中国环境科学学会环境地学分会副主任委员和沉积物专业委员会副主任委员，担任 SCI 期刊 *Journal of Environmental Informatics* 以及 *Bulletin of Environmental Contamination and Toxicology* 副主编。主持国家重点研发项目、国家“973”课题、国家自然科学基金重点项目和面上项目以及国际合作项目等 30 余项。发表期刊论文 230 余篇，其中以第一/通讯作者在 *Nature Geoscience*, *Environmental Science & Technology*, *Water Research*, *Journal of Hydrology*, *Global Biogeochemical Cycles* 等 SCI 刊物发表论文 120 余篇，连续入选 Elsevier 环境领域中国高被引学者榜单。获国家自然科学基金二等奖(排名第 1)，国家科技进步二等奖，以及北京市自然科学一等奖，教育部自然科学一等奖和科技进步一等奖等奖项。同时获“茅以升北京青年科技奖”和“中国青年科技奖”，入选“科技北京百名领军人才培养工程”、科技部“中青年科技领军人才”和教育部“新世纪优秀人才支持计划”。



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## **Lihua Xiong (熊立华)**

Lihua Xiong, born in October 1972, professor, doctoral supervisor, and winner of governmental special allowance provided by the State Council. He is mainly engaged in the research on hydrology and water resources. In the field of runoff formation and forecast, he has mainly obtained research findings in three aspects: (1) Based on the theory of hydrothermal equilibrium in Budyko basin, he has revealed the control factors and influence mechanism for runoff formation; brought forward the spatial distribution theory of soil water storage capacity parameters; established the distributed two-parameter monthly runoff model, which has been incorporated into a monograph on hydrological models published in the United States, and provided an effective tool for evaluating the influences of climatic change on water resources. (2) He has improved GLUE, a classical runoff forecasting method considering the uncertainty of model parameters; brought forward the hydrological model ensemble forecasting technique based on fuzzy system and Bayesian theory, which has been incorporated into the Encyclopedia of Hydrological Sciences published by American Wiley; and established the high-precision runoff forecasting system controlling various uncertainty influences. (3) He has brought forward a regional flood frequency analysis method considering spatial inconsistency, established a theoretical framework for runoff frequency distribution in low water period, and inferred the annual runoff frequency distribution function; and innovated the theory and method for hydrological design of inconsistent projects in changing environments. The research findings have been applied to the runoff forecasting and dispatching systems of many large-scale reservoirs, including the Three Gorges Reservoir in China, and highly praised by the Office of the National General Command for Flood Control and Drought Relief. For his research findings, he has won one First Prize of the Award for Scientific and Technological Progresses of the Ministry of Education (ranking the 1st place), the First Liu Guangwen Award for Youth Scientific and Technological Progresses, one Second Prize of the Award for Scientific and Technological Progresses of the Ministry of Education (ranking the 3rd place), and one Second Prize of Award for Natural Sciences of the Ministry of Education (ranking the 4th place). Also, he has issued more than 100 papers, including more than 60 SCI papers, SCI cited for more than 800 times.

熊立华，1972年10月出生，教授、博士生导师，国务院政府特殊津贴获得者。主要从事水文学及水资源研究。在径流形成与预报领域取得了三个方

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面的研究成果：（1）基于 **Budyko** 流域水热平衡理论，揭示了径流形成的控制因子和影响机制；提出了土壤蓄水容量参数的空间分布理论；建立了分布式两参数月径流模型，该模型已被收录到美国出版的水文模型专著，为评价气候变化对水资源的影响提供了有效的工具。（2）改进了经典的考虑模型参数不确定性的径流预报方法 **GLUE**；提出了基于模糊系统和贝叶斯理论的水文模型集合预报技术，该方法被收录到美国 **Wiley** 出版的《水文科学大百科全书》；建立了控制各种不确定性影响的高精度径流预报体系。（3）提出了考虑空间非一致性的区域洪水频率分析方法，建立了枯水径流频率分布的理论框架，推导了年径流频率分布函数；创新了变化环境下非一致性工程水文设计的理论和方法。研究成果在我国三峡水库等多座大型水库径流预报调度系统中得到了应用，得到了国家防汛抗旱总指挥部办公室的高度评价。研究成果获教育部科技进步一等奖 1 项（排名第 1），首届刘光文青年科技奖，教育部科技进步二等奖 1 项（排名第 3），以及教育部自然科学奖二等奖 1 项（排名第 4）。发表论文 100 余篇，其中 SCI 论文 60 余篇，SCI 他引 800 余次。

### **Huacheng Xu (徐华成)**

Xu Huacheng, a researcher of Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, Ph.D. supervisor, deputy director of Lake Environmental Management and Ecological Restoration Engineering Laboratory, Chinese Academy of Sciences, and a recipient of the National Natural Science Foundation of China Outstanding Young Fund and Jiangsu Outstanding Young Fund. He is mainly engaged in research related to the pollution mechanism and prevention of lake and reservoir water environment, with a specific focus on the multi-interface behavior of pollutants in eutrophic lakes and reservoirs, migration convergence simulation, and ecological environmental effects. In recent years, he has presided over or participated in more than 10 national and provincial level projects such as the National Science and Technology Major Project, the Chinese Academy of Sciences, the National Natural Science Foundation of China, Natural Science Foundation of Jiangsu Province, etc. He has been selected as an outstanding member of the Chinese Academy of Sciences Youth Innovation Promotion Association and Jiangsu Province Youth Science and Technology Talent Support Project and won the second prize of Yunnan Province Science and Technology Progress and the first prize of Jiangsu Province Water Resources Science and Technology Progress each. He has published more than 60 SCI

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papers (including 15 in Nature Index) in top international journals such as Environmental Science & Technology and Water Research, and his papers have been cited more than 2000 times. He is the editorial board member and reviewer of many international and domestic journals.

徐华成，中国科学院南京地理与湖泊研究所研究员，博士生导师，中科院湖泊环境治理与生态修复工程实验室副主任，国家自然科学基金优秀青年基金和江苏省杰出青年基金获得者。主要从事湖库水环境污染机理与防治相关研究工作，具体方向为富营养湖库污染物的多界面作用行为、迁移归趋模拟和生态环境效应。近年来，主持或参与国家科技重大专项、中国科学院、国家自然科学基金、江苏省自然科学基金等国家及省部级课题 10 余项，入选中国科学院青年创新促进会优秀会员和江苏省青年科技人才托举工程，获云南省科技进步二等奖和江苏省水利科技进步一等奖各 1 项。相关研究成果在国际顶尖期刊 Environmental Science & Technology 和 Water Research 等发表 SCI 论文 60 余篇（其中 Nature Index 期刊 15 篇），论文被引 2000 余次，授权/申请国家专利 20 余件，出版第一作者专著 1 部，担任多个国际、国内期刊编委及审稿人。

### **Ming Xu (徐鸣)**

Xu Ming, born in Wuxi, Jiangsu, graduated from Nanjing University with a major in Chinese language and literature. He is currently the chairman of CPPCC Theoretical Research Association of Jiangsu Province, the deputy chairman of the Expert Advisory Committee of the Yangtze River Conservation and Green Development Research Institute of Hohai University, and a distinguished researcher of the Yangtze River Industrial Economic Research Institute of Nanjing University. As an educated youth at that time, he went to the countryside to join the production brigade. After graduating from university, he held leading positions in county, city, and provincial party and government agencies, large state-owned enterprises, and mass organizations. While working in the provincial government, he was in charge of environmental protection, agriculture and rural areas, and water conservancy, etc. In recent years, he has published several research achievements on agriculture and rural areas and environmental protection. He is also the author of *Study Notes on Frontier Science and Technology Hotspots* and *Great History: From the Origin of the Universe to Human Civilization*.

徐鸣，江苏无锡人，南京大学汉语言文学专业毕业，现为江苏省政协理论

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研究会会长、河海大学长江保护与绿色发展研究院专家咨询委员会付主任委员、南京大学长江产业经济研究院特聘研究员。曾作为知识青年下乡插队，大学毕业后在县、市、省党政机关及大型国有企业、群众团体担任领导职务；在省政府工作期间，分管环境保护、农业农村及水利等工作。这些年曾发表有关农业农村、环境保护方面多项研究成果，并著有《前沿科技热点学习笔记》《大历史：从宇宙起源到人类文明》等。

## **Shikai Xu (徐世凯)**

XU Shikai, the chief engineer of NHRI Hydraulic Engineering Department, dean of Hydro-junction and Environmental Hydraulics Research Laboratory, professor-level senior engineer and specially-appointed master tutor of Hohai University. He is engaged in research on hydrodynamics, water environment and sediment problems of shallow lakes; research on warm water discharge of water-related projects in thermal/nuclear power plants and discharge of low-level radioactive wastewater; research on desalination of seawater and comprehensive utilization technology of concentrated brine. He has presided over more than 20 national research projects, including national key scientific and technological projects, national "863" projects, national major special projects, national science and technology infrastructure platform projects, national natural science foundation projects, ministerial key research projects, foundation projects, public welfare water industry projects, etc. What's more, he has presided over more than 100 projects which are at provincial and ministerial level. More than 20 academic papers and 1 textbook for undergraduates and graduate students written by him have been published. He has received 2 Provincial and Ministerial Science and Technology Progress Awards and 2 authorized patents.

徐世凯，南京水利科学研究院水工水力学研究所总工，枢纽及环境水力学研究室主任，河海大学特聘硕士研究生导师，教授级高级工程师。从事浅水湖泊水动力、水环境问题研究、泥沙问题研究；火/核电厂涉水工程温排水、低放废水排放问题研究；海水淡化及浓盐水综合利用技术研究。先后主持参与国家科技攻关项目（国家科技支撑项目）、国家“863”项目、国家重大专项、国家科技基础条件平台工作重点项目、国家自然科学基金项目、部重点科研项目、基金项目、公益性水利行业项目等国家级科研项目 20 余项，省部级项目 100 余项。发表论文 20 余篇，出版大学本科和研究生教材 1 部。获省部级科技进步奖 2 项，授权专利 2 项。

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## **Yueping Xu (许月萍)**

Yueping Xu, female, born in Zhuji, Zhejiang Province, doctoral supervisor, dean of Department of Water Resources, Zhejiang University, deputy director of Institute of Hydrology and Water Resources Engineering. She received her bachelor's and master's degrees in engineering from Wuhan University of Water Resources and Electric Power, her doctor's degree from Twente University in the Netherlands, and her postdoctoral degree from Hong Kong University of Science and Technology for one year. In January 2007, she entered the Department of Hydraulic Engineering, College of Civil Engineering and Architecture, Zhejiang University. She has been awarded the title of Excellent Teacher of Zhejiang University, Top Ten Teachers of College of Civil Engineering and My Favorite Teacher of Zhejiang University for many years. She was selected as the "Zijin Program" of Zhejiang University Outstanding Young Teachers Funding Program, the Outstanding Youth of Zhejiang Natural Science Foundation and the Second Level of 151 Talents in Zhejiang Province. Professor Yueping Xu is mainly engaged in hydrology and water resources, water disaster and water environment in the aspects of teaching and scientific research work, the research direction for change under the environment of water resources system risk analysis and uncertainty analysis, flood risk analysis, hydrological extremes mechanism research, risk analysis of water pollution, integrated water resources management and mountain torrent disaster of small watershed management and so forth. She is responsible for 4 projects of National Natural Science Foundation of China, 1 project of inter-governmental key international cooperation of the National Key Research and Development Program, 1 project of international cooperation of the Ministry of Science and Technology, outstanding youth and key projects of Zhejiang Natural Science Foundation, major horizontal projects and so on. She has published more than 200 academic papers, one academic monograph, more than 70 SCI papers and more than 20 EI papers. Her positions include Vice Chairman of the Surface Water Committee of China National Committee of the International Hydrological Association (CNC-IAHS), Member of the Standing Committee of Youth Working Committee of China Hydraulic Society, Member of the Standing Committee of Water Resources Committee of China Natural Resources Association, etc. She also won the Second Prize of Natural Science Award of Ministry of Education and the Second Prize of Science and Technology Progress Award of Zhejiang Province. She won the second prize of the 2017 Excellent Teaching Award of

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Zhejiang University, the best professional tutor of Chu Kochen Honors College, Zhejiang University in 2018, and the excellent teaching case of professional graduate education of Zhejiang University in 2020, etc.

许月萍，女，浙江诸暨人，博士生导师，浙江大学水利系系主任，水文与水资源工程研究所副所长，曾就读于武汉水利电力大学，获工学学士和硕士学位，荷兰屯特大学获博士学位，香港科技大学博士后一年。2007 年 1 月进入浙江大学建筑工程学院水利工程学系工作，曾连续多年被评为浙江大学优秀班主任，并荣获浙江大学建工学院十佳教工、我最喜爱的老师等称号，入选浙江大学优秀青年教师资助计划“紫金计划”、浙江省自然科学基金杰出青年和浙江省 151 人才第二层次。许月萍教授主要从事水文与水资源、水灾害和水环境方面等方面的教学与科研工作，研究方向为变化环境下的水资源系统风险分析与不确定性分析、洪水风险分析、水文极端事件机理研究、水污染风险分析、综合水资源管理和小流域山洪灾害治理等。负责国家自然科学基金 4 项、国家重点研发计划政府间重点国际合作专项 1 项、科技部国际合作项目 1 项、浙江省自然基金杰出青年和重点项目、重大横向项目等多项项目。共发表学术论文 200 余篇，出版学术专著一本，SCI 论文 70 余篇，EI 论文 20 余篇。为国际水文协会中国国家委员会地表水专委会副主席（CNC-IAHS）、中国水利学会青年工作委员会常委委员、中国自然资源协会水资源专业委员会常委委员等。获得教育部自然科学奖二等奖和浙江省科学技术进步奖二等奖等奖项。获得 2017 年度浙江大学优质教学奖二等奖；2018 年度浙江大学竺可桢学院最佳专业导师等；2020 年浙江大学专业学位研究生教育优秀教学案例等。

### **Zongxue Xu (徐宗学)**

Dr. Zongxue Xu is a distinguished professor in Beijing Normal University, and the director of Beijing Key Laboratory of Urban Hydrological Cycle and Sponge City Technology. He also serves as the Vice President, International Association for Hydrological Science (IAHS); Vice Chairman, Chinese National Committee of IAHS; and Member, Chinese National Committee, International Hydrological Programme (IHP) for UNESCO, and the International Union of Geodesy and Geophysics (IUGG). Dr. Xu's experiences and interests in hydrology and water resources include risk analysis, urban hydrology, hydrological model, ecohydrological process simulation, hydrological response to climate change, and others. He has published more than 400 scientific papers and 12 books after he graduated with a doctoral degree in 1988.

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徐宗学博士，北京师范大学特聘教授，城市水循环与海绵城市技术北京市重点实验室主任、国际水文科学协会(IAHS)副主席、中国国际卫生学会全国委员会副主席、联合国教科文组织国际水文计划(IHP)和国际大地测量与地球物理联合会(IUGG)中国全国委员会成员。徐宗学博士在水文与水资源方面的经验和兴趣包括风险分析、城市水文、水文模型、生态水文过程模拟、水文对气候变化的响应等。1988 年获得博士学位后，发表了 400 多篇科学论文和 12 本书籍。

### **Denghua Yan (严登华)**

Denghua Yan, born in October 1976 in Taihu County, Anhui Province, male, Han nationality, hydrologist and water resources scientist, member of the Communist Party of China. In July 2003, he graduated from the Graduate School of the Chinese Academy of Sciences and received his PhD degree. He is now the Deputy Director and Deputy Secretary of the Party Branch of the Institute of Water Resources, China Institute of Water Resources and Hydropower Research. He is also a member of the Youth Federation of Central State Organs and the Youth Federation of the Ministry of Water Resources, a deputy director of the secondary institutions of national institutes such as the Technical Committee of China Society for Water Resources Strategy, and enjoys the special government allowance of the State Council.

He has been engaged in climate change and hydrology and water resources research for a long time. He has systematically constructed a number of theories and applied techniques, which include the theoretical and technical system of climate-hydro-ecological coupling simulation and regulation, quantitative evaluation of water resources based on air-land coupling simulation, combined regulation of ecological water use and ecological land use under changing environment, rational allocation of water resources based on low-carbon development model, response measures based on three assessments of drought and flood disaster risk, total watershed water pollution control and smart watershed construction of ecological sponge, which brought remarkable benefits social economy and ecological environment. He has published more than 300 academic papers, of which more than 90 are SCI and EI papers. He has participated in the compilation of more than 20 academic works and applied for more than 200 patents. He has won one second prize of national science and technology progress, one special prize of Dayu water conservancy science and technology award (ranking first), 4 first prizes, and 20 other provincial and ministerial awards. He was

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selected as a national science and technology leading talent of the "Ten Thousand Talents Program" and a national candidate of the "Millions of Talents Project" and won the titles of "Young and Middle-aged Science and Technology Leading Talents" and "China Youth Science and Technology Award" by the Ministry of Science and Technology. In 2017, he was awarded the National Outstanding Youth Fund.

严登华，1976 年 10 月生于安徽太湖，男，汉族，水文水资源学家，中共党员。2003 年 7 月，毕业于中国科学院研究生院获博士学位，现任中国水利水电科学研究院水资源所副所长兼党支部副书记；兼任中央国家机关青联委员和水利部青年联合会委员；担任中国水资源战略研究会技术委员会等国家级学会二级机构的副主任；享受国务院政府特殊津贴。

长期从事气候变化与水文水资源研究，系统构建了气候-水文-生态耦合模拟与调控的理论与技术体系，创建了基于气-陆耦合模拟的水资源定量评价、变化环境下生态用水和生态用地的联合调控、基于低碳发展模式的水资源合理配置、基于三次评价旱涝灾害风险应对、流域水污染总量控制和生态海绵智慧流域建设等多项理论与应用技术，社会经济与生态环境效益显著。已发表学术论文 300 余篇，其中 SCI、EI 各 90 余篇；参编学术论著 20 余部；申报专利 200 余项。先后获国家科技进步二等奖 1 项，大禹水利科技奖特等奖（排名第一）1 项、一等奖 4 项，其他省部级奖励 20 项；入选国家“万人计划”科技领军人才、“百千万人才工程”国家级人选，获得科技部“中青年科技领军人才”、“中国青年科技奖”等称号。2017 年，荣获国家杰出青年基金。

## **Dawen Yang (杨大文)**

Dr. Yang is a professor and doctoral supervisor of the Department of Water Resources of Tsinghua University. Winner of National Science Fund for Distinguished Young Scholars, Distinguished Professor of the Chang Jiang Scholars Program, Vice Chairman of the Chinese National Committee of the International Association for Hydrological Sciences, Associate Editor of Hydrological Research Letters, Watershed Ecology and the Environment, Editorial Board of Journal of Hydraulic Engineering and Advances in Water Science. Professor Yang Dawen is mainly engaged in ecological hydrology, hydrology and water resources research, and currently presides over the special project of the National Natural Science Foundation of China on the "Ecological Protection and Sustainable Development Mechanism of the Yellow River Basin": the



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coupling effect of water cycle law and water-soil process in the Yellow River Basin. Published more than 200 academic papers in journals such as *Science Advances*; won the IAHS Tison Award in 2003 and won the first prize of the Ministry of Education in 2015 and 2020 (ranking 1).

清华大学水利系教授，博士生导师。国家杰出青年科学基金获得者、长江学者奖励计划特聘教授，国际水文科学协会中国国家委员会副主席，*Hydrological Research Letters*, *Watershed Ecology and the Environment* 副编辑，《水利学报》和《水科学进展》编委会委员。杨大文教授主要从事生态水文学和水文水资源研究，目前主持国家自然科学基金“黄河流域生态保护与可持续发展作用机制”专项项目：黄河流域水循环规律与水土过程耦合效应。在 *Science Advances* 等期刊发表学术论文 200 余篇；2003 年获 IAHS Tison Award，2015 年和 2020 年分别获教育部自然科学一等奖（排名 1）。

### **Fang Yang (杨芳)**

Yang Fang, deputy president of The Pearl River Hydraulic Research Institute, professor-level senior engineer. He is the deputy director of the Youth Union of China Hydraulic Engineering Society, deputy director of the River Basin Development Strategy Professional Committee, deputy director of the Pearl River Estuary Management and Protection Key Laboratory of the Ministry of Water Resources, and director of Guangdong Province Water Security Alliance. He has long been engaged in scientific research on river estuary management and protection, water environment management, and water ecological restoration. He has presided over more than 50 projects. He has won 8 provincial and ministerial-level scientific and technological progress awards. He was granted 7 patents and 13 software copyrights, and published 3 monographs.

杨芳，珠江水利科学院副院长，教授级高工，中国水利学会青工委副主任委员、流域发展战略专业委员会副主任委员，水利部珠江河口治理与保护重点实验室副主任，广东省水安全联盟理事。长期从事河流河口治理与保护、水环境治理与水生态修复等方面的科研工作，主持项目 50 余项。获省部级科技进步奖 8 项，授权发明专利 7 项、软件著作权 13 项，出版专著 3 部。

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## Guang Yang (杨光)

Guang Yang is a professor and doctoral supervisor in the School of Life Sciences, Nanjing Normal University. He has presided over more than 50 projects of national, ministerial and provincial levels, horizontal research and international exchange and cooperation—such as key projects of the National Natural Science Foundation of China and National Key Research and Development Projects. He also has delivered nearly 90 papers as the corresponding in internationally renowned journals or mainstream SCI ones such as *Nature Communications*, *Systematic Biology*, *Molecular Biology and Evolution*. He has won honorary titles of the "Changjiang Scholars" Distinguished Professor of the Ministry of Education, the National Science Fund for Distinguished Young Scholars, the National Talent Project for National Talents and Young and Middle-aged Experts with Outstanding Contributions, the Special Government Allowance of the State Council, the first batch of "Huang Danian Teacher Team" by the Ministry of Education, etc. At the same time he is concurrently the vice chairman of the Chinese Zoological Society and Chairman of the Biological Evolution Theory Professional Committee, vice chairman of the Animal Ecology Professional Committee of the Chinese Ecological Society, vice chairman of the Science and Technology Committee of the Chinese Wildlife Conservation Association, member of the Endangered Species Science Committee of the People's Republic of China, member of China's Animal Subject Expert Review Team in the National Science Foundation, deputy editor of "Journal of Animal Science" and member of the editorial board of *Molecular Biology and Evolution*, *Scientific Reports*, *Integrative Zoology*, *Frontiers in Ecology and Evolution* and *The Innovations*.

杨光，南京师范大学生命科学学院教授、博士生导师，主要从事动物进化与保护生物学研究。先后主持了包括国家自然科学基金重点项目、国家重点研发计划课题等在内的国家级、部省级、横向课题及国际交流合作项目超过 50 项。在 *Nature Communications*、*Systematic Biology*、*Molecular Biology and Evolution* 等国际著名或主流 SCI 刊物发表通讯作者论文近约 90 篇。先后获得教育部“长江学者”特聘教授、国家杰出青年科学基金、国家百千万人才工程国家级人选暨有突出贡献中青年专家、国务院政府特殊津贴、教育部首批“黄大年式教师团队”等荣誉称号。兼任中国动物学会副理事长暨生物进化理论专业委员会主任委员、中国生态学会动物生态专业委员会副主任委员、中国野生动物保护协会科学技术委员会副主任委员、中华人民共和国濒危物种科学委员会委员、国家自然科学基金

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金委动物学科专家评审组成员，《兽类学报》副主编及《Molecular Biology and Evolution》《Scientific Reports》《Integrative Zoology》《Frontiers in Ecology and Evolution》《The Innovations》等编委。

## **Lihong Yang (杨丽红)**

Dr Lihong Yang currently serves as the Chief Engineer of China Energy Conservation DADI Environmental Remediation Co., Ltd. and the Deputy Director of State Environmental Protection Engineering Center for Industrial Contaminated Site and Groundwater Remediation.

Education: PhD in Water Resources Science and Engineering from Peking University, MS in Environmental Management from State University of New York at Stony Brook, MS in Marine Geology from South China Sea Institute of Oceanography, Chinese Academy of Sciences.

Her expertise is focused on soil and groundwater environmental protection and contamination control, watershed ecological protection and restoration, multi-scale and multi-media pollution control, application and promotion of mathematical models in environmental management, etc. She has been working closely with the Ministry of Ecology and Environment (MEE) at many aspects: participating in the compilation of technical standards and specifications for the groundwater remediation industry of MEE; working as the technical leader and guiding expert of the project to carry out successive case demonstrations during 12<sup>th</sup> and 13<sup>th</sup> Five-Year-Plan; serving as a professional technical training instructor of MEE; currently the chief technical leader of the demonstration project of groundwater pollution prevention and control of MEE in Lishui, Zhejiang. She is also the technical expert of the "Green Development Fund" of the Yangtze River Protection Project of the Development and Reform Commission, and the technical consultant of the "Fen River Basin Ecological Industrialization and Industrial Ecology" project of the Shanxi Provincial Water Resources Department. Dr Lihong Yang has been responsible for consulting and engineering projects involving various industries and scales in the field of cross-environmental medium natural resource and environmental protection.

现任中节能大地环境修复有限公司专业总工/国家环境保护工业污染场地及地下水修复工程技术中心副主任，曾任美国 HDR|HydroQual 环境咨询公司综合

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水资源部环境咨询师。

教育背景：北京大学水资源科学与工程博士、美国纽约州立大学石溪分校（State University of New York at Stony Brook）环境管理硕士、中国科学院南海海洋研究所海洋地质硕士。

专业技术领域集中在土壤及地下水污染防治、流域生态环境保护修复、多尺度多介质污染协同控制、数学模型在环境管理中的应用及推广等方面。多层面密切配合生态环境部各项工作，参与编撰生态环境部地下水行业技术标准与技术规范，并作为项目技术负责人和指导专家逐年连续开展案例示范工作；多年担任生态环境部专业技术培训讲师；现任生态环境部丽水地下水污染防治试点项目技术总负责人。担任发改委长江大保护“绿色发展基金”项目申报及评审技术专家；山西省水利厅黄河大治理子项“汾河流域生态产业化及产业生态化”项目技术顾问。曾负责执行涉及多种行业、多种尺度的跨环境介质资源与环境保护咨询及工程项目。

### **Qinli Yang（杨勤丽）**

Qinli Yang, graduated from University of Edinburgh, UK, and is currently an associate professor/doctoral supervisor of University of Electronic Science and Technology of China. She has long been engaged in interdisciplinary research on hydrology and water resources, data mining and remote sensing applications. She has published more than 20 academic papers in high-level journals recognized by domestic and foreign peers, such as Water Research and Journal of Hydrology, and more than 30 papers in interdisciplinary journals and conferences (such as Environmental Modelling & Software, Information Sciences, IEEE TKDE). 4 of which won the Excellent Paper Award. She has presided over more than 10 projects including the National Natural Science Foundation of China, the sub-projects of the National Key Research and Development Program, and the international cooperation projects of Sichuan Provincial Science and Technology Department. She has granted (including applied for) 6 invention patents and participated in the compilation of the Fourth National Assessment Report on Climate Change and Climate and Ecological Environment Evolution in China: 2021.

杨勤丽，博士毕业于英国爱丁堡大学，现为电子科技大学副教授/博士生导师。长期从事水文水资源、数据挖掘和遥感应用的交叉学科研究。在 Water

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Research、Journal of Hydrology 等国内外同行认可的高水平期刊上发表学术论文 20 余篇，在交叉学科期刊和会议（如 Environmental Modelling & Software 、Information Sciences、 IEEE TKDE 等）上发表相关论文 30 余篇，其中 4 篇获优秀论文奖。主持国家自然科学基金项目、国家重点研发计划子课题、四川省科技厅国际合作项目等 10 余项。授权（含申请）发明专利 6 项。参与编写《第四次气候变化国家评估报告》和《中国气候与生态环境演变：2021》。

### **Zhongbo Yu (余钟波)**

YU ZHONGBO, Distinguished Professor of "Thousand Talents Program" and "Yangtze Scholar", Director of the State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering. His major research is on the mechanism, theory and method of hydrological cycle under the environmental change, and has presided over more than 50 projects including the first round of National Key Research and Development Programs, 973 Project, Chang Jiang Scholars Innovation Team, and the Key Projects of the National Natural Science Foundation of China. He received the second prize of National Science and Technology Progress Award, first prize of Natural Science of Ministry of Education, and first prize of Dayu Water Science and Technology of Ministry of Water Resources. He has published more than 400 paper, which have been cited over 7000 times. He has 29 authorized patents. He was selected as Fellow of Geological Society of America in 2004. He received John Hem Award of Outstanding Contribution to Science and Engineering of American Groundwater Association in 2015. In 2016, he was awarded the title of National Excellent Scientific and Technological Worker. He was recognized with May 1st Medal in 2017. As vice chairman of the UNESCO Intergovernmental Hydrological Programme and chairman of the Asia-Pacific Steering Committee of the International Hydrological Programme, he has promoted the development of global hydrological science and enhanced the international influence of China's hydrology.

Yu has mentored national talents such as Chang Jiang Scholars Program, Thousand Talents and Ten Thousand Talents, and his students has won the nomination of National Excellent Dissertation, Jiangsu Provincial Excellent Dissertation and National First Prize of "Challenge Cup". He has presided over the development and construction of the hydrology discipline of Hohai University. The discipline of water conservancy has continuously ranked first in China, and the State Key Laboratory of Hydrology-Water

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Resources and Hydraulic Engineering has continuously been rated as excellent. Yu founded the International Joint Laboratory of Global Change and Water Cycle under the Ministry of Education which provides the platform for international collaborations and exchanges. A comprehensive experimental base for hydrology and ecological environment on the Qinghai-Tibet Plateau has been established to improve the level of hydrological mechanism research in cold regions. It has promoted the development of water conservancy and scientific and technological progress in the industry.

余钟波，“千人计划”及“长江学者”特聘教授、水文水资源与水利工程国家重点实验室主任。主要从事环境变化下水文循环的机理、理论和方法研究，主持首批国家重点研发计划、973 计划、长江学者创新团队等 50 多个项目，国家自然科学基金重点项目。曾获国家科技进步二等奖、教育部自然科学一等奖、水利部大禹水利科学技术一等奖。发表论文 400 余篇，被引用 7000 余次。获授权专利 29 项。2004 年入选为美国地质协会会员，2015 年获美国地下水协会科学与工程杰出贡献奖，2016 年获得国家优秀科技工作者称号，2017 年获五一劳动奖章。作为联合国教科文组织政府间水文计划副主席和国际水文计划亚太指导委员会主席，他推动了全球水文科学的发展，增强了中国水文学的国际影响力。

他曾指导长江学者计划、千人计划、万人计划等国家级人才，指导的博士论文获全国百篇优秀博士论文提名奖、江苏省优秀博士论文、全国“挑战杯”一等奖等。他主持了河海大学水文学科的开发建设，水利学科连续位居全国第一，水文水资源与水利工程国家重点实验室连续获评优秀。经教育部批准成立了全球变化与水循环研究中心，为国际合作与交流提供平台。建立青藏高原水文生态环境综合实验基地，改善高原寒区水文机制研究水平，也促进了水利事业发展和业内科技进步。

### **Xing Yuan (袁星)**

Xing Yuan, male, Ph.D., professor and doctoral supervisor of Nanjing University of Information Science and Technology, dean of School of Hydrology and Water Resources Engineering, one of National Young Scholar of "Overseas Talent Program", and Jiangsu "Start-up and Innovation Talents". In 2009, he received his PhD degree in meteorology from the Institute of Atmospheric Sciences, Chinese Academy of Sciences. From 2009 to 2014, he successively worked at the University of Illinois at Urbana-Champaign (UIUC) and Princeton University, an Ivy League university. From 2014 to

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2018, he served as a researcher and doctoral supervisor at the Institute of Atmospheric Sciences, Chinese Academy of Sciences. He has presided over the Talent Program of the Organization Department of the CPC Central Committee, the National Key Research and Development Special Program of the Ministry of Science and Technology, the Cultivation Program of the National Foundation of China, and the General Program. His research interests focus on hydroclimate and hydrometeorology, including the development of high-resolution land surface models, climate change and water cycle, hydrometeorological aggregation prediction, and attribution of extreme flood and drought events. He has published more than 80 papers, including more than 50 SCI papers as the first/corresponding author in Nature Communications, BAMS, WRR and other journals. He is on the editorial board of several SCI journals including Hydrology and Earth System Sciences (Region 1), JGR-A and Hydrology Research. He is the Vice Chairman of the Land and Air Relations Sub-Committee of the International Hydrological Association (IAHS) Chinese Committee, a member of the Hydrometeorology Professional Committee of the Chinese Meteorological Society, a member of the Hydrometeorology Professional Committee of the Chinese Society of Water Resources, and a member of the Ecohydrology Professional Committee of the Chinese Society of Ecology. He was awarded Xie Yibing Young Meteorological Science and Technology Award and Tsinghua University - Inspur Group Computational Earth Science Young Talent Award.

袁星，男，博士，南京信息工程大学教授，博士生导师，水文与水资源工程学院院长，国家“海外引才计划”青年学者，江苏“双创人才”。2009年获中科院大气所气象学博士学位。2009-2014年先后在美国伊利诺伊大学香槟分校（UIUC）和美国“常春藤”名校普林斯顿大学工作，2014-2018任中科院大气所研究员、博导。主持中组部人才项目、科技部国家重点研发专项课题、基金委培育项目和面上项目等。研究方向为水文气候和水文气象，包括高分辨率陆面模式研发、气候变化与水循环、水文气象集合预测、极端水旱事件归因等。发表论文80余篇，包括 Nature Communications、BAMS、WRR 等期刊第一/通讯作者 SCI 论文 50 余篇。担任 Hydrology and Earth System Sciences(1 区), JGR-A, Hydrology Research 等多个 SCI 期刊编委。国际水文协会 IAHS 中国委员会陆气关系分委会副主席，中国气象学会水文气象学专业委员会委员，中国水利学会水文气象学专业委员会委员，中国生态学会生态水文专业委员会委员。曾获谢义炳青年气象科技奖、清华大学-浪潮集团计算地球科学青年人才奖。

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## **Qingzhong You (游庆仲)**

Qingzhong You, professor-level senior engineer. He has long been engaged in transportation construction management and comprehensive transportation planning research. Now he is a counselor of the Jiangsu government, a policy advisory member of the Ministry of Transport. He is the Vice Chairman of China Highway And Transportation Society, Vice Chairman of Jiangsu Provincial Comprehensive Transportation Association. He has served as the director of Jiangsu Provincial Transportation Department and the Director-General of Economic Committee, Jiangsu Provincial People's Political Consultative Conference, etc.

游庆仲，教授级高工，长期从事交通建设管理和综合交通运输规划研究，现任江苏省政府参事，交通运输部政策咨询委员，中国公路学会副理事长，江苏省综合交通运输学会副理事长。曾担任江苏省交通运输厅厅长、江苏省政协经济委员会主任等职务。

## **Yuhong Zeng (曾玉红)**

Zeng Yuhong is a recipient of the National Outstanding Young Scientists Fund, a New Century Outstanding Talent of the Ministry of Education, and a distinguished professor and doctoral supervisor of Wuhan University. Zeng is dedicated to basic research in the field of environment and eco-hydrology. To address the frontier scientific problem of material transport and ecological response at the water-sand-water-biological interface driven by hydrodynamics, Zeng has conducted more than ten years of experimental and theoretical research work, focusing on the interaction of aquatic plants, heterogeneous particles (sediment, plant and animal propagules, etc.) with hydrodynamics and their effects on the water environment. He has presided over 5 projects of the National Natural Science Foundation of China, and the research results have served the strategic needs of national ecological protection and restoration. Zeng has published more than 80 papers in authoritative academic journals home and abroad, 50 SCI-indexed papers (18 papers in Region II and above); published 2 Chinese monographs; authorized 2 patents. He received 2 Natural Science Second Prize in Hubei Province (ranked 3 (2013) and 4 (2007)), and 1 Excellent Thesis First Prize in Hubei Province (ranked 1 (2006)). He is currently a member of the Executive Committee of the International Association of Hydraulic and Environmental



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Engineering (IAHR) China Chapter, a member of the Environment Hydro Committee of Chinese Hydraulic Engineering Society, and a member of the International Association of Hydrological Sciences (IAHS) China Chapter. He is also a member of the Editorial Board of *the Journal of Hydrodynamics*. Zeng is also the associate editor of *Journal of Environmental Accounting and Management*.

曾玉红，1976 年 10 月出生，国家优秀青年科学基金获得者，教育部新世纪优秀人才，武汉大学珞珈特聘教授、博士生导师。致力于环境与生态水力学领域的基础研究，针对水动力驱动下水-沙-水生物界面物质输运及生态环境响应这一前沿科学问题，围绕水生植物、异质颗粒（泥沙，动植物繁殖体等）与水动力的交互作用及对水环境的影响，开展了十余年的实验与理论研究工作。主持国家自然科学基金项目 5 项，成果服务于国家生态保护与修复的战略需求。在国内外权威学术期刊发表论文 80 余篇，SCI 收录论文 50 篇（二区及以上 18 篇）；出版中文专著 2 部；授权专利 2 项。获湖北省自然科学二等奖 2 项（排名 3（2013）、4（2007）），湖北省优秀论文一等奖 1 项（排名 1（2006））。现担任国际水利与环境工程学会（IAHR）中国分会执行委员，水利学会环境水利专委会委员，及国际水文科学协会中国分会委员，SCI 收录期刊《Journal of Environmental Accounting and Management》副主编，《Journal of Hydrodynamics》编委。

### **Bing Zhang (张兵)**

Zhang Bing, professor, doctoral supervisor. He is now a member of the Standing Committee of the Party committee and chief accountant of Hohai University. He also serves as the vice president of *Yangtze Institute for Conservation and Development*, director and chief expert of *Jiangsu Research Base of Yangtze Institute for Conservation and High-quality Development*, chairman of *Philosophy and Social Sciences Federation* of Hohai University, vice chairman of *Yangtze River Economic Belt Geoinformation Collaborative Innovation Alliance (YGCI)*, vice chairman of *Jiangsu Agricultural Resources Development Association*, and a member of the Fifth Council of *Changjiang Technology and Economy Society*. He has long been committed to research in the fields of finance and regional economy, agricultural economy, Yangtze River protection and high-quality development. In recent years, he has presided over more than 50 projects, including the major project of NSFC, the NSFC project, projects of Ministry of Education Fund for Humanities and Social Sciences, projects of the Ministry of Agriculture, Jiangsu projects of the World Bank. He is also the chief editor

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of *Research on Yangtze River Protection and Green Development*, the editorial board member of *International Agricultural Research*. He has published five research monographs, including *Jiangsu Rural Financial Development Report*. He has published more than 100 papers in important journals. He has won the prize of *National Outstanding Teaching Achievement*, the special prize of *Jiangsu Outstanding Teaching Achievement* and the *Outstanding Achievement Award of Philosophy and Social Sciences* in Jiangsu Province.

张兵，教授，博士生导师。现任河海大学党委常委、总会计师。兼任长江保护与绿色发展研究院副院长，江苏长江保护与高质量发展研究基地主任、首席专家，河海大学哲学社会科学联合会主席，长江经济带地理信息协同创新联盟副理事长，江苏省农业资源开发学会副理事长，长江技术经济学会第五届理事会理事；历任南京农业大学计财处处长兼招标办主任，金融学院党委书记、院长，西南交通大学党委常委、总会计师等职务。

张兵教授长期致力于金融与区域经济、农业经济、长江保护与高质量发展等领域的研究工作，近年来主持国家社科基金重大招标项目 1 项、国家社科基金项目 1 项、教育部人文社会科学规划基金项目及一般项目 3 项、农业部软科学项目及一般项目 10 项、世界银行江苏项目 5 项、江苏省软科学等省级项目 5 项、江苏高校哲学社会科学重点研究基地重大项目 1 项等 50 多项课题研究；担任《长江保护与绿色发展研究》丛书主编、《国际农业研究》编委，并出版《江苏农村金融发展报告》等研究专著 5 部；在《经济学季刊》、《中国农村经济》、《改革》、《农业经济问题》等重要刊物发表论文百余篇。曾荣获国家级优秀教学成果二等奖，江苏省优秀教学成果特等奖、二等奖，江苏省哲学社会科学优秀成果两项三等奖主要完成人。

### **Jianmin Zhang (张建民)**

Zhang Jianmin, a researcher and Ph.D. supervisor at Sichuan University. He was awarded the National Science Fund for Distinguished Young Scholars and selected as one of the leading talents in science and technology innovation in the National "Ten Thousand People Plan". He is mainly engaged in the teaching and research of hydraulics and river dynamics. He is currently an executive committee member of the International Association for Hydro-Environment Engineering and Research IAHR China, a member of the editorial board of JHD and various Chinese core journals. He

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has presided over 6 projects of the National Science Fund for Distinguished Young Scholars and the National Natural Science Foundation of China, 1 project of the National Key Research and Development Program, and has been in charge of more than 50 projects including the key projects of the National Natural Science Foundation of China, the National "973" projects, the National Science and Technology Support Program and the National Major Engineering Research Projects. He has published more than 200 papers in JHE-ASCE, JHR-IAHR, WM-ICE, and other famous academic journals, including more than 70 SCI-indexed papers, more than 70 authorized national invention patents, and 2 monographs. Several research results have been successfully applied to practical engineering, and have won 1 second prize of the National Technical Invention, and six first prize and 4 second prize of the Provincial and Ministerial Science and Technology Achievement.

张建民，现任职四川大学，研究员，博士生导师，获国家杰出青年科学基金资助，入选国家“万人计划”科技创新领军人才。主要从事水力学及河流动力学方面的教学和科研工作。现为国际水利与环境工程协会 IAHR 中国区执委、JHD 及多种中文核心期刊编委。先后主持国家杰出青年科学基金、国家自然科学基金面上项目 6 项，国家重点研发计划课题 1 项，负责或主研包括国家自然科学基金重点项目、国家“973”课题、国家科技支撑计划项目和国家重大工程科研项目等 50 余项。在 JHE-ASCE、JHR-IAHR、WM-ICE 等著名学术期刊发表论文 200 余篇，其中 SCI 收录 70 余篇，获授权国家发明专利 70 余项，出版专著 2 部。多项研究成果成功应用于实际工程，曾获国家技术发明二等奖 1 项，省部级科技成果一等奖 6 项、二等奖 4 项。

### **Jianyun Zhang (张建云)**

Dr. Jianyun Zhang, academician of the Chinese Academy of Engineering, international fellow of the British Royal Academy of Engineering, is currently the honorary president of Nanjing Hydraulic Research Institute, president of the Yangtze Institute of Conservation and Development, and director general of the Research Centre of Climate Change under the Chinese Ministry of Water Resources (MWR). He is also serving as the editor-in-chief of the journal, *Advances in Water Science*, and professor at Hohai University. In his earlier career, Dr Zhang served as the chief engineer of the MWR Bureau of Hydrology (1998-2006), general designer of the commanding system for the national flood control and drought relief (1997-2002), chairman of the Chinese

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National Committee of the International Association of Hydrological Sciences (CNC-IAHS) (2003-19), member of the World Meteorological Organization (WMO) Commission for Hydrology (CHy) (2004-08), and editor-in-chief for the Journal of China Hydrology (1998-2006).

Dr Zhang has been a long-time dedicated researcher in the fields of hydrology, water resources, flood control and drought relief, climate change impacts, and hydro-informatics. He led the development of a series of key systems, such as the national flood forecasting and warning system, the decision supporting system for flood control and drought relief, and the integrated hydro-meteorological information system, etc. These systems are providing important technical supports in national endeavours for reducing natural disasters like flooding and droughts. He presided the design of National Flood Control and Drought Relief Command System Project(1996-2002) and the first-stage construction of the project(2002-2006). He has also contributed significantly to the fields of flood forecasting models, climate change impacts on hydrological cycle and adaptation, methods of design precipitation and design floods, and reservoir operation and dam safety. His research findings from a project on dam safety and resilience have been widely applied in China's management practices of reservoirs and dams, improving overall dam safety and generating extensive socio-economic benefits. He has won two First and five Second Prizes of National Science and Technology Progress, and three special prizes and three first prizes at the provincial or ministerial levels. He has published 6 monographs, 1 translation and more than 300 papers. He has been awarded the National Young and Middle-aged Experts with Outstanding Contribution, National Outstanding Returned Overseas Students, National Outstanding Professional and Technical Talents, National Advanced Worker, National Advanced Science and Technology Worker, and enjoys the special allowance of the State Council Government.

张建云，中国工程院院士、英国皇家工程院外籍院士，南京水利科学研究院名誉院长，长江保护与绿色发展研究院院长，水利部应对气候变化研究中心主任，《水科学进展》主编，河海大学教授。曾任水利部水文局总工程师（1998-2006）、国家防汛抗旱指挥系统工程总设计师（1997-2002）、国际水文科学协会中国国家委员会主席（2003-19）、世界气象组织（WMO）水文学委员会（CHy）执委（2004-08），《水文》杂志主编（1998-2006）。

张建云教授长期从事水文水资源、防汛抗旱、气候变化影响、水利信息化等

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科研工作。主持研究开发了“全国洪水预报系统”、“国家防汛抗旱会商系统”、“防汛抗旱水文气象综合信息系统”等一系列业务系统，为国家防洪抗旱调度决策和指挥提供科学依据。作为总设计师，主持了国家防汛抗旱指挥系统工程设计（1996-2002）和一期工程的建设工作（2002-2006），构建了国家防汛抗旱减灾决策平台，促进了全国水利信息化。在洪水预报理论研究及应用、气候变化对水文水资源影响评估和适应对策、设计暴雨和设计洪水等方面取得重要研究成果。主持研究的“全国水库大坝安全保障关键技术”已在全国水库大坝安全管理中广泛应用，全面提升了国家水库大坝安全管理水平，取得了显著的经济和社会效益。共获国家科技进步一等奖 2 项、二等奖 5 项，省部级特等奖 3 项、一等奖 3 项。出版专著 6 部、译著 1 部、发表论文 300 余篇。先后获得国家有突出贡献的中青年专家，全国留学优秀回国人员，全国杰出专业技术人才，全国先进工作者，全国先进科技工作者，享受国务院政府特殊津贴。

### **Ke Zhang (张珂)**

Prof. Ke Zhang received his Ph.D. in ecohydrology in 2009 from University of Montana, USA. He is currently a professor of Hydrology and Water Resources at Hohai University. His research interest includes hydrology and water resources, remote sensing hydrology and ecohydrology. He has published more than 100 journal articles, including 90 SCI-indexed papers published by *Nature*, *Nature Climate Change*, *PNAS*, *Hydrology and Earth System Sciences*, *Journal of Hydrology*, *Water Resources Research* and others in the fields of earth sciences and hydrology and water resources. He has also authored 6 book chapters and owned 3 patents. He has frequently served as reviewers for more than 40 international journals. He also serves as associate editor for *Journal of Hydrology*, *Frontiers in Earth Science*, *Hydrology Research*, and *Water Science and Engineering*, and editorial board member for *Environmental Modelling & Software*, and *Scientific Reports*.

张珂教授于 2009 年在美国蒙大拿大学获得生态水文学博士学位，现任河海大学水文与水资源教授，研究兴趣为水文学和水资源，遥感水文学和生态水文学。发表期刊文章 100 多篇，包括 90 篇由 SCI 索引论文，方向为地球科学，水文学和水资源，分别发表在 *Nature*, *Nature Climate Change*, *PNAS*, *Hydrology and Earth System Sciences*, *Journal of Hydrology*, *Water Resources Research* 等期刊。撰写 6 本专著，拥有 3 项专利，常任 40 多种国际期刊的审稿人，担任 *Journal of Hydrology*, *Frontiers in Earth Science*, *Hydrology Research*, and *Water Science and Engineering*

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的副编辑，也是 *Environmental Modelling & Software, and Scientific Reports* 的编辑委员会成员。

### **Qi Zhang (张奇)**

Professor Zhang had his PhD degree at the University of Queensland, Australia in 2000. His research interests include catchment hydrology, lake hydrodynamics, hydrological impacts of climate change and human activities, coupled surface-subsurface modelling, and seawater intrusion. In recent years, he has been conducting research on lake-catchment hydrological and hydrodynamic modelling, impacts of climate change and human activities on the water balance and water quality of lakes, effects of large hydraulic engineering on lake-river hydraulic relationship and lake drought in the middle reaches of the Yangtze River. Prof. Zhang has a long track record of positive and productive collaboration with international organizations, including CSIRO Land and Water Australia, Flinders University of Australia, Christian-Albrechts-Universitat zu Kiel, Helmholtz Centre for Environmental Research (UFZ) and Technische Universität Darmstadt, Germany.

张奇教授于 2000 年获得澳大利亚昆士兰大学博士学位，研究兴趣包括流域水文、湖泊水动力学、气候变化和人类活动的水文影响、地表-地下耦合模拟和海水入侵。近年来，他一直在研究湖泊水文和水动力模型，气候变化和人类活动对湖泊的水平衡和水质的影响，大型水利工程对湖泊水压关系和长江中游干旱的影响。张奇教授与包括澳大利亚联邦工业和工业联合会、澳大利亚弗林德斯大学、基尔大学、德国亥姆霍兹环境研究中心(UFZ)和德国达姆施塔特工业大学在内国际组织有长期的积极和富有成效的合作记录。

### **Yongqiang Zhang (张永强)**

Yongqiang Zhang, a native of Baotou, Inner Mongolia, was a Humboldt scholar in Germany. Second Researcher in the Global Water Cycle and Deputy Director in Key Laboratory of Land Water Cycle and Surface Processes. He has worked in four countries: China, Japan, Germany and Australia. Prior to returning to Australia, he was a principal researcher at the Land and Water Research Institute of the Commonwealth Scientific and Industrial Research Organisation (CSIRO). He is currently deputy editor of Journal of Hydrology and Journal of Geophysical Research - Atmospheres ,

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Editorial Board member of *Water*, a leading Journal of Hydrology. He was awarded for 12 times, including the President's Special Award of the Chinese Academy of Sciences, the GN Alexander Medal of the Australian Hydraulic Engineering Commission, and the Outstanding Young Scientist Award of the Australian and New Zealand Model Simulation Association. His main research interests include global evapotranspiration mechanism and process, large-scale runoff prediction, eco-hydrological process, remote sensing methods in hydrological process simulation and prediction, and regional and global hydrological cycle numerical simulation. He has published 140 academic papers, which includes 95 SCI papers and 4 highly cited ESI papers on *Global Change Biology*, *Remote Sensing of Environment*, *Water Resources Research*, *HESS*, *Journal of Hydrology*, *Journal of Hydrometeorology*, *Journal of Geophysical Research-Atmospheres*. He has presided over the completion of 9 national research projects, including two Australian national major projects. He was responsible for the development of the hydrological module of the "Australian Water Information Simulation System under the Australian Water Information Alliance Research Project" (2008-2013 AUD 55 million). He led the catchment surface hydrology module of the Australian government's major project "Ecological Zone Assessment" (2013-2018 AUD 65 million), which was the first large-scale government-organized multi-unit, interdisciplinary assessment of the impact of coal mining on the water environment.

张永强，内蒙古包头人，德国洪堡学者。全球水循环方向二级研究员，陆地水循环及地表过程重点实验室副主任。具有中国、日本、德国和澳大利亚 4 个国家的工作经历。回国前在澳大利亚联邦科学与工业研究院（CSIRO）陆地与水资源研究所担任首席研究员。现任水文领域顶级期刊 *Journal of Hydrology* 和自然指数期刊 *Journal of Geophysical Research - Atmospheres* 副主编，*WATER* 期刊编委。获奖 12 项，包括中国科学院院长特别奖，澳大利亚水利工程委员会 GN Alexander 奖章，澳大利亚新西兰模型模拟协会杰出青年科学家奖等。研究领域为水文学与水资源。主要研究方向为全球蒸散发机理和过程、大尺度径流预报、生态水文过程、遥感手段在水文过程模拟和预报中的应用、区域与全球水循环过程数值模拟等。共发表学术论文 140 篇，包括水文水资源、环境遥感和全球变化等领域权威期刊 *Global Change Biology*、*Remote Sensing of Environment*、*Water Resources Research*、*HESS*、*Journal of Hydrology*、*Journal of Hydrometeorology*、*Journal of Geophysical Research-Atmospheres* 等 SCI 论文 95 篇，4 篇 ESI 高被引论文。主持完成了 9 项国家级别的科研项目，包括两项澳大利亚国家重大项目，

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负责完成了“澳大利亚水信息联盟研究项目”(2008 - 2013, 5500 万澳元) 澳大利亚水信息模拟系统水文模块的研发;担任澳大利亚政府重大项目“生态区评估”(2013 - 2018, 6500 万澳元) 流域地表水文模块领导, 该项目是首次政府组织的多单位、跨学科评估采煤对水环境影响的大型项目。

### **Chunmiao Zheng (郑春苗)**

Chunmiao Zheng is currently Chair Professor and Vice Provost of Global Strategies at Southern University of Science and Technology (SUSTech) in Shenzhen, China. He joined SUSTech as Founding Dean of the School of Environmental Science and Engineering in 2015. Previously, he was Chair Professor and Director of the Institute of Water Sciences at Peking University in Beijing, China, and the George Lindahl III Endowed Professor at the University of Alabama. His research interests include groundwater contaminant transport and remediation, basin-scale ecohydrological processes, and water resource sustainability. He is developer of the MT3D/MT3DMS series of contaminant transport models used in over 100 countries, and author of over 300 peer-reviewed journal papers and 6 books, including the textbook *Applied Contaminant Transport Modeling*, with first and second editions published by Wiley, and Chinese edition by Higher Education Press (China). He has served as associate editor for five leading hydrology and water resource journals (*Water Resources Research*, *Journal of Hydrology*, *Groundwater*, *Hydrogeology Journal*, and *Vadose Zone Journal*). He has also served on the Committee on Hydrologic Science of the U.S. National Research Council and as president of the International Commission on Groundwater of the International Association of Hydrological Sciences. He has received numerous awards and honors, including the Birdsall-Dreiss Distinguished Lectureship and O.E. Meinzer Award from the Geological Society of America, and the John Hem Award and M. King Hubbert Award from the National Ground Water Association. He is also recipient of the Distinguished Alumni Award from the Department of Geoscience, University of Wisconsin-Madison. He is a fellow of both the American Geophysical Union and the Geological Society of America. He holds a Ph.D. degree in Geoscience with a minor in Environmental Engineering from the University of Wisconsin-Madison.

郑春苗现任南方科技大学环境科学与工程学院讲席教授兼校长办公会成员(国际事务), 生态环境部国家环境保护流域地表水-地下水污染综合防治重点实



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验室主任，国家自然科学基金委环境地球科学学科指导专家组成员。1983 年获成都地质学院（现成都理工大学）水文地质与工程地质专业学士学位，1988 年获美国威斯康星（麦德逊）大学博士学位。曾任美国阿拉巴马大学 George Lindahl III 冠名讲席教授、北京大学讲席教授兼水科学研究中心主任。研究领域包括流域尺度生态-水文过程、地下水污染机理与修复技术、以及新型污染物生态与人体健康风险等。开发了地下水溶质运移模拟国际通用软件 MT3D 和 MT3DMS，在 100 多个国家得到广泛使用。已发表 SCI 论文 300 余篇、专著 6 部，谷歌学术被引总数 1.3 万余次。目前或者曾经兼任 Water Resources Research, Journal of Hydrology, Groundwater, Hydrogeology Journal 和 Vadose Zone Journal 等国际水文与水资源领域顶尖学术期刊副主编，国际水文科协（IAHS）国际地下水委员会主席，美国国家研究理事会（NRC）水文科学核心小组成员。主持编写了国家基金委-中国地质调查局支持的白皮书《中国地下水科学的机遇与挑战》（2009 年出版），并参与编写了美国国家研究理事会的战略报告 Challenges and Opportunities in the Hydrologic Sciences (2012 年出版)。获得多项国际水文地质与地下水科学领域重要奖项，包括：美国地下水协会 John Hem 奖（1998）与 M. King Hubbert 奖（2013）、美国地质学会 Birdsall-Dreiss 杰出讲席奖（2009）与 O.E. Meinzer 奖（2013）。2014 年被授予威斯康星（麦迪逊）大学地学系杰出校友奖。1999 年当选美国地质学会会士(GSA Fellow)，2019 年当选美国地球物理联合会会士（AGU Fellow），以表彰其为地球和空间科学发展做出的开创性卓越贡献。

### **Jinhai Zheng (郑金海)**

Jinhai Zheng, born in February 1972 in Putian, Fujian Province, is a doctor and professor. He is the recipient of the National Science Foundation for Distinguished Young Scholars, the Distinguished Professor of "Cheung Kong Scholars Program", the National Scientific and Technological Innovation Leader of "Ten Thousand Talents Program", and the Distinguished Visiting Scholar of the Royal Academy of Engineering. He enjoys the special government allowance of the State Council.

He graduated from Hohai University with a bachelor's degree in port and waterway engineering in July 1993 and worked as a teacher in Hohai University after he graduated with a doctoral degree in coastal engineering in September 1998. He was appointed as an associate professor in April 2001 and professor in December 2006. In October 2015, he was selected as Jiangsu distinguished professor. In April 2017, he was selected as "Cheung Kong Scholars Program" distinguished professor of Port, Coastal and

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Offshore Engineering by the Ministry of Education. He has visited Kyoto University in Japan, Rostock University in Germany, Utrecht University in the Netherlands, Dundee University and Bradford University in the UK, Griffith University in Australia, Massachusetts Institute of Technology in the US and other universities. He is also the Vice Chairman of the First Committee of the Disaster Reduction Science and Technology Branch of the Oceanographic Society of China, the Vice Chairman of the Tenth Board of the Jiangsu Provincial Society of Oceanology and Limnology, the Vice Chairman of the Ninth Board of the Jiangsu Provincial Society of Water Conservancy, and the Deputy Editor-in-Chief of Ocean Engineering of the Third Edition of the Encyclopedia of China.

He is mainly engaged in teaching and scientific research in the fields of port, waterway, coastal and offshore engineering. His academic team of "comprehensive management and protection of estuaries and coasts" led by him has been selected as "the Excellent Scientific and Technological Innovation Team of Jiangsu Universities", the Scientific and Technological Innovation Team of "Blue Project" of Jiangsu Universities and the "Worker Pioneer" of Jiangsu Province. He is responsible for the construction of the national excellent resource sharing course of "Coastal Dynamics", and has edited and published the English textbook Coastal Hydrodynamics and Morphodynamics for the planning of the national water conservancy industry. He has supervised 1 excellent doctoral thesis, 4 excellent master's thesis and 2 excellent professional graduate thesis of Jiangsu Province, and won the special prize and first prize of teaching achievement of water conservancy major in colleges and universities, and 1 second prize of the reform achievement of postgraduate training mode in Jiangsu Province. He has presided over more than 60 scientific research projects such as "Estuary Management and Coastal Protection" funded by the National Science Foundation for Distinguished Young Scholars. He has published one academic monograph and more than 200 academic papers. He has made scientific contributions to the nonlinear mechanism of wave-current interaction and its dynamic geomorphological response, and provided an advanced coastal dynamics simulation method for the research of port and waterway engineering construction, estuarine and coastal disaster prevention and mitigation, and the governance and protection of blue bay in China. His research achievements have won the second prize of the National Science and Technology Progress Award, the first prize of the Science and Technology

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Progress Award of the Ministry of Education, the first prize of the Science and Technology Progress Award of China Waterway Construction, the first prize of the Science and Technology Progress Award of Fujian Province, and the best paper of 2014 in the Journal of Port, Waterway and Coastal Ocean Engineering of the American Society of Civil Engineers. He has organized to compile and publish 12 English waterway engineering standards and specifications, providing important technical documents support for China's port and shipping industry to expand the international market. He Mainly participated in the top-level design, work plan preparation, and technical method system construction of coastal zone protection and restoration projects organized by the Ministry of Natural Resources, and played an important role in promoting the implementation of the projects.

郑金海, 1972 年 2 月生, 福建省莆田人, 博士、教授。国家杰出青年科学基金获得者、“长江学者奖励计划”特聘教授、国家“万人计划”科技创新领军人才、英国皇家工程院杰出访问学者, 享受国务院政府特殊津贴。

1993 年 7 月河海大学港口及航道工程专业本科毕业, 1998 年 9 月河海大学海岸工程博士研究生毕业后留校任教, 2001 年 4 月受聘副教授, 2006 年 12 月受聘教授。2015 年 10 月入选江苏特聘教授, 2017 年 4 月入选教育部“长江学者奖励计划”港口、海岸及近海工程学科特聘教授。曾在日本京都大学、德国罗斯托克大学、荷兰乌特勒支大学、英国邓迪大学和布拉德福德大学、澳大利亚格里菲斯大学、美国麻省理工学院等高校访问研究。兼任中国海洋学会减灾科学技术分会第一届委员会副主任委员、江苏省海洋湖沼学会第十届理事会副理事长、江苏省水利学会第九届理事会副理事长、《中国大百科全书》第三版海洋卷海洋工程副主编。

主要从事港口、航道、海岸及近海工程领域的教学和科研工作, 带领的“河口海岸综合治理与保护”学术团队入选江苏高等学校优秀科技创新团队、江苏省高校“青蓝工程”科技创新团队和江苏省“工人先锋号”。负责建设“海岸动力学”国家精品资源共享课, 主编出版全国水利行业规划英语教材《Coastal Hydrodynamics and Morphodynamics》, 指导江苏省优秀博士学位论文 1 篇、优秀硕士学位论文 4 篇和优秀专业学位研究生论文 2 篇, 获高等学校水利类专业教学成果特等奖和一等奖、江苏省研究生培养模式改革成果二等奖各 1 项。主持国家杰出青年科学基金“河口治理与海岸保护”等 60 余项科研项目, 出版学术专著 1 部, 发表学术论文 200 余篇。在波流相互作用的非线性机制及其动力地貌响应方面做出科学贡献, 为我国港口航道工程建设、河口海岸防灾减灾、蓝色海湾治

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理保护等方面的研究提供先进的海岸动力学模拟方法。科研成果获国家科学技术进步二等奖、教育部科学技术进步奖一等奖、中国水运建设科学技术奖一等奖、福建省科学技术进步奖一等奖以及美国土木工程师学会港口水道与海岸海洋工程期刊 2014 年度最佳论文。组织编译出版 12 部英文版水运工程标准规范，为我国港航工程界拓展国际市场提供重要的技术文件支撑。主要参与自然资源部组织的海岸带保护修复工程顶层设计、工作方案编制、技术方法体系建设等工作，在推动工程实施中起到重要作用。

## **Yi Zheng (郑一)**

Prof. Zheng obtained his doctor' s degree from University of California, Santa Barbara, USA. He is a recipient of the Excellent Young Scholars Award from National Natural Science Foundation of China (NSFC), Professor and Associate Dean of the School of Environmental Science and Engineering, SUSTC. He is an associate editor of Water Resources Research (a leading international journal in the field of hydrology and water resources) and Journal of Hydrologic Engineering-ASCE. He is also the deputy director of the State Environmental Protection Key Laboratory of Integrated Surface Water-Groundwater Pollution Control, the director and Associate Director of the Young Scientists Committee of China Society of Natural Resources, and the director of Shenzhen Environmental Internet of Things Technology and Application Engineering Laboratory. He has published more than 100 academic papers, mainly in Environmental Science & Technology, Water Research, Geophysical Research Letters, Water Resources Research and other top journals in the field, seven of which are ESI highly cited papers. His works have been featured in the "Research Spotlight" of EoS published by American Geophysical Union, and have been given honors of cover paper, Editor' s Highlight and featured article of Water Resources Research. In 2019, he received the "Outstanding Science and Technology Award" from the Chinese Society of Natural Resources.

美国加州大学圣巴巴拉分校博士，国家优秀青年科学基金获得者，南方科技大学环境科学与工程学院教授、副院长。主要从事生态水文模拟、水资源与水环境管理、环境大数据与人工智能等方面研究，是国际水文水资源领域权威期刊 Water Resources Research 及 SCI 期刊 Journal of Hydrologic Engineering-ASCE 的副主编。兼任国家环境保护流域地表水-地下水污染综合防治重点实验室副主任、中国自然资源学会理事及青年工作委员会的副主任、深圳市环境物联网技术与应

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用工程实验室主任等职。已发表学术论文 100 多篇，主要发表于 Environmental Science & Technology, Water Research, Geophysical Research Letters, Water Resources Research 等相关专业领域的一流刊物上，7 篇曾入选 ESI 高被引论文。亮点成果获得学界关注，被美国地球物理学会（AGU）会刊 Eos 的“焦点研究”（Research Spotlight）栏目专题报，曾获 Water Resources Research 的封面论文、Editor's Highlight、Featured Article 等荣誉。2019 年获中国自然资源学会“优秀科技奖”。

### **Zhiyu Zhong (仲志余)**

Zhiyu Zhong, male, native of Taizhou, Jiangsu Province, Han ethnic group, born in December 1965, member of Jiusan Society, Doctor of Engineering, and Professor-level Advanced Engineer. Now, he is the chief engineer of Changjiang Water Resources Commission of the Ministry of Water Resources, Deputy Director Member of Jiusan Society Hubei Provincial Party Committee, member of the Thirteenth CPPCC National Committee, and member of the CPPCC Agriculture and Rural Affairs Committee, and enjoys the governmental special allowance provided by the State Council. He is engaged in the research on the Yangtze River Basin and the planning and design of major water conservancy projects for long term, responsible for the preparation of integrated planning, flood control planning, and water resources planning for the Yangtze River Basin, and in charge of many national key research & development, and technological difficulty tackling projects, such as “the Technology for Multi-objective Combined Dispatching of Cascade Reservoirs in the Upper Reaches of the Yangtze River”. He has successively won the honors such as Top Ten Outstanding Youths of Organs Directly under Hubei Province, Young and Middle-aged Experts with Outstanding Contributions of Hubei Province, Winner of Qian Ning Award for Sediment Sciences, Liu Guangwen Award for Engineering Technology, etc.

仲志余，男，江苏泰州人，汉族，1965 年 12 月出生，九三学社社员，工学博士，教授级高级工程师。现任水利部长江水利委员会总工程师，九三学社湖北省委副主委，第十三届全国政协委员，全国政协农业农村委委员。享受国务院政府特殊津贴。长期从事长江流域及重大水利工程规划设计研究，负责长江流域综合规划、防洪规划、水资源规划的编制，主持“长江上游梯级水库群多目标联合调度技术”等多项国家重点研发、科技攻关项目。先后获得湖北省直机关十大杰出青年、湖北省有突出贡献中青年专家、钱宁泥沙科学奖、刘光文工程技术奖等

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多项表彰。

### **Luchun Zhu (朱鲁存)**

Zhu Lucun, Vice President of the Planning and Research Institute of the Ministry of Transport, is a professor-level senior engineer and a registered civil engineer (port and waterway engineering). He was awarded the "Government Special Allowance" by the State Council in 2001. He has been engaged in water transportation planning, design, scientific research, and comprehensive transportation planning and research for more than 30 years, presided over several national and regional water transportation planning and strategic research, comprehensive transportation planning research, national comprehensive transportation, and water transportation five-year plan preparation. He is responsible for or has presided over National Inland Water Transport Development Strategy Research, Inland Water Transport and Water System Development Research, Three Gorges Reservoir Port Geological Disaster Prevention Key Technology Research, Inland Water Transport Construction Demonstration Project Key Technology Research, National Inland Water Research on Channel and Port Layout Planning, Research on Accelerating the Construction of Comprehensive Transportation System, Research on Development Planning of Comprehensive Transportation in the "13th Five-Year Plan", etc. He is the chief editor of books such as New Concept-Inland Waterway Construction Guidelines and Atlas of National Inland Waterway Planning.

朱鲁存，交通运输部规划研究院副院长，教授级高级工程师，注册土木工程师（港口与航道工程）。荣获 2001 年度国务院“政府特殊津贴”。从事水运规划、设计、科研及综合交通运输规划研究工作 30 余年，主持完成了多项全国性及区域性水运规划和战略研究、综合交通运输规划研究、全国综合交通运输及水运五年规划编制等工作。负责或主持完成了《全国内河航运发展战略研究》、《内河航运与水系开发研究》、《三峡库区港口地质灾害防治关键技术研究》、《内河水运建设示范工程关键技术研究》、《全国内河航道与港口布局规划研究》、《加快推进综合运输体系建设研究》、《综合交通运输“十三五”发展规划研究》等。主编了《新理念—内河航道建设指南》、《全国内河航道规划图集》等书籍。

### **Xinhua Zhu (朱新华)**

Professor Zhu Xinhua, the deputy dean of School of public administration of

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Hohai University, Dayu scholar, and excellent youth of Zijin culture in Jiangsu Province. He is mainly engaged in the research of resource economy and policies, Yangtze River Protection and delivered more than 30 papers in mainstream journals in the field of resources and environment, such as *Land Use Policy*, *Socio-Economic Planning Sciences*, *Sustainable Cities and Society*. As a host, he completed more than 10 scientific research projects from the National Natural Science Foundation of China, the Humanities and Social Science Foundation of the Ministry of Education, and the Social Science Foundation of Jiangsu Province, the Research Basement of Decision-making and Consultation in Jiangsu, such as Chemical Industry Transfer and Sustainable Development along the Yangtze River, Research on the Integration of Chemical Industry Chain along the Yangtze River in Jiangsu Province under the Background of Double Cycle.

朱新华教授，河海大学公共管理学院副院长，大禹学者、江苏省紫金文化优青。主要从事资源经济与政策、长江保护等领域的研究。在 *Land Use Policy*、*Socio-Economic Planning Sciences*、*Sustainable Cities and Society* 等资源与环境领域主流期刊发表论文 30 余篇。主持并完成了“沿江化工产业转移与可持续发展”、“双循环背景下江苏沿江化工产业链整合研究”等国家自然科学基金、教育部人文社会科学基金、江苏省社科基金、江苏省决策咨询研究基地课题等数十项科研项目。