

Greetings from the President

Greetings! CAPEES members. I hope everyone is doing well and having a productive and joyful time. With this newsletter, I'd like to update you with recent development and activities of CAPEES in 2010. I am happy to report three new CAPEES Officers for this year - Profs. Kung-Hui (Bella) Chu (as Membership Chair), Xingmao (Samuel) Ma and Zhiyong (Jason) Ren (as Associate Editors). The other current Officers are Profs. Jianpeng (Jim) Zhou (President-Elect), Jianmin Wang (Editor-in-Chief), Pei C. Chiu (Treasurer) and Qilin Li (Secretary). I want to thank all of them for their service.

Currently, CAPEES has 31 regular members and 6 affiliated members, from 27 different universities across the U.S. and 5 universities in Canada, Singapore and China. Our members consist of 14% professors, 22% associate professors, 54% assistant professors and 10% lecturer, postdoc and students. The goal of CAPEES is to facilitate networking and professional development among our members as well as with colleagues outside of CAPEES. Recently in July, CAPEES held a dinner gathering at the 6th International Conference for Sustainable Water Environment in Newark, Delaware. In addition to CAPEES members, many conference attendees from China, Taiwan and Singapore were invited, and a total of more than 50 people joined the gathering. It was a warm and cheerful evening and many people made personal connections. I gratefully thank Profs. C. P. Huang and Pei Chiu for their support in making this event possible. This event highlights one of the important roles that CAPEES can serve to better connect our members to research and education opportunities in Asia and vice versa. In the future, I believe it's important for CAPEES to continue organizing gatherings, regardless for large or small groups of people, at many conferences in North America as well as in Asia if possible to foster networking and interactions. If you are planning to attend a conference such as ACS, WQTC, AEESP, etc., please send me an e-mail so that we could make plans ahead.

Editor for this issue: [Jianmin Wang](#) and [Zhiyong Ren](#)

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We are also thinking about possible means to conduct "virtual" interactions, such as less formal communications highlighting CAPEES members' professional and personal activities or technical Webinars, to stimulate interactions without the need of travel. If you have ideas or suggestions to promote our members' interactions, please do not hesitate to let me know. Lastly, I'd like to encourage more CAPEES members to get involved in our organization. This will be a great way to get to know each other better and work together. You could consider hosting or co-hosting gatherings, participating in communication publications, becoming officers for the next year, etc. In addition, if you have information (e.g., awards, honors, grants and publications) to share with our community, please submit it directly at our website or to our Editor Dr. Jianmin Wang.

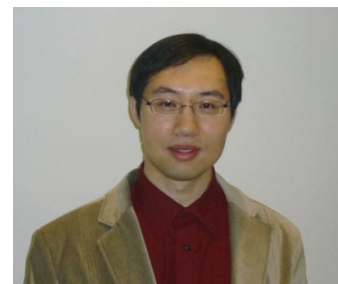
I wish everyone a successful 2010 and look forward to further interactions with many of you!

Ching-Hua Huang, President

Featured Member of the Issue

Dr. Xingmao (Samuel) Ma, P.E. Southern Illinois University Carbondale

Dr. Ma obtained his B.S. and M.S. degrees in Environmental Engineering from Taiyuan University of Technology and Tongji University in 1997 and 2000 respectively. He earned his Ph.D. in Civil (specializing in Environmental) Engineering from the University of Missouri-Rolla (Currently Missouri University of Science & Technology) in 2004. Following the completion of his Ph.D., Dr. Ma continued his academic career by working as a Postdoc Fellow in Louisiana State University and then the University of Texas Austin until 2007. Dr. Ma joined the Department of Civil and Environmental Engineering at



Southern Illinois University Carbondale as a faculty member in August 2007.

Dr. Ma's expertise is in plant-facilitated remediation technologies such as phytoremediation and constructed wetlands. He investigated the uptake and transport of volatile organic compounds by plants in phytoremediation as part of his Ph.D. work. Dr. Ma expanded his research to rhizosphere degradation and sediment remediation through his postdoc work. His current efforts focus on the implications and applications of engineered nanoparticles in the environment. Specifically, Dr. Ma is investigating the fate and impact of engineered silver nanoparticles and zero valent iron nanoparticles in phytoremediation systems. In addition, Dr. Ma is exploring potential applications of carbonaceous nanoparticles in wastewater treatment and remediation. Dr. Ma has published over 20 peer-reviewed journal papers and book chapters in his research expertise.

Dr. Ma's teaching includes Water and Wastewater Treatment, Advanced Physical and Chemical Treatment Technologies, Environmental Remediation Technologies, Environmental Chemistry and Humans and Their Environment.

Member News

Please visit www.capees.org for more details

Dr. Ching-Hua Huang received Water Research Foundation grant:

Dr. Ching-Hua Huang, Associate Professor in School of Civil & Environmental Engineering, Georgia Institute of Technology recently received a grant from the highly competitive Unsolicited Research Program of Water Research Foundation to study "Transformation of Amines to Nitrosamines on Activated Carbons: Implications for Nitrosamine Analysis and Water Purification". It is a two year project at \$150,000 to help determine the degree to which activated carbon treatment may facilitate the formation of nitrosamines, a class of contaminants that USEPA is currently considering regulating.

Dr. Huichun (Judy) Zhang moves to Temple University

Dr. Huichun (Judy) Zhang, formerly an assistant professor in the Department of Chemistry and Environmental Sciences at Southern Illinois University Edwardsville, will join the Department of Civil and Environmental Engineering at Temple University, Philadelphia, PA in Fall 2010. Judy Zhang earned her Ph.D. from Georgia Institute of Technology and her bachelor's and Master's degrees from Nanjing University in China. Her research focuses on the fate and transformation of environmental contaminants in natural and engineered aquatic environment and their removal from drinking water and wastewater effluents.

Dr. Yinjie Tang wins NSF CAREER award and Ralph E. Powe award

Dr. Yinjie Tang, Assistant Professor in Energy, Environmental and Chemical Engineering at Washington University in St. Louis, received the prestigious National Science Foundation CAREER award in 2010. He receives \$300,000 from 2010-2013 to conduct research on algal biofuel production, with the possibility of renewal of another \$200,000 in the following years. Dr. Tang also received Ralph E. Powe Junior Faculty Enhancement Award (\$5,000, 2010-2011) for his work in biotechnology nanoparticles

Dr. Yuefeng Xie awarded Fulbright Visiting Research Chair

Dr. Yuefeng Xie, Professor of Environmental Engineering at The Pennsylvania State University and Past President of CAPEES, has been selected to receive a Fulbright Visiting Research Chair award. He plans to spend the coming fall semester at University of Lethbridge in Alberta, Canada, to investigate the effect of climate change on small water systems.

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Dr. Jianmin Wang received Faculty Achievement Award

Dr. Jianmin Wang, Associate Professor at Missouri S&T, received Joseph H. Senne, Jr. Faculty Achievement Award from Academy of Civil Engineers, Missouri University of Science and Technology, for his outstanding teaching and service to the Department of Civil, Architectural and Environmental Engineering, Missouri S&T.

Dr. Baolin Deng named Chairman of Dept of Chemical Engr at Univ of Missouri

Baolin Deng, C. W. LaPierre Professor of Civil and Environmental Engineering at the University of Missouri, has been named chairman of the Department of Chemical Engineering. Baolin received his undergraduate degree in applied chemistry and master's degree in geochemistry from China, and then earned his doctorate in environmental engineering from the Johns Hopkins University, Maryland. Prior to coming to the University of Missouri in 2001, Deng was on the faculty of New Mexico Institute of Mining and Technology.

Dr. Zhiyong Ren received two new grants

Zhiyong (Jason) Ren, Assistant Professor at University of Colorado - Denver, received two grants from the Office of Naval Research (ONR). The first project "High yield hydrogen production in microbial electrolysis cells using carbon nanofiber electrodes (\$450,000)" aims to develop carbon nano material based electrodes for higher energy production. The second project "Low-energy desalination and energy generation in bioelectrochemical systems (BES) (\$99,210)" is to develop portable BES devices that can concurrently treat wastewater, desalinate salt water, and produce energy. Microbial Fuel Cells (MFCs) is the most common bioelectrochemical systems.

CAPEES gathering at the 6th International Conference on Sustainable Water Environment

Nine CAPEES members, Jiangyong Hu, Ching-Hua Huang, Qilin Li, Bella Chu, Jianpeng (Jim)

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Zhou, Jianmin Wang, Yuefeng Xie, Pei Chiu, and C.P. Huang attended the 6th International Conference on Sustainable Water Environment at University of Delaware, Newark, Delaware, from July 29 - 31, 2010. More than 50 people from the world gathered at the CAPEES dinner. Thanks to Dr. C.P. Huang and Dr. Pei Chiu who organized this activity and provided funding for the dinner.



Front row (from left): Jiangyong Hu, Ching-Hua Huang, Qilin Li, and Bella Chu;

Back row (from left): Jianpeng (Jim) Zhou, Jianmin Wang, Yuefeng Xie, and Pei Chiu.

New Members

Dr. Zhen He (University of Wisconsin-Milwaukee)
Dr. Kung-Hui (Bella) Chu (Texas A&M University)
Dr. Xu Li (University of Nebraska-Lincoln)
Dr. Chuanwu Xi (University of Michigan)
Dr. Yang Deng (University of Puerto Rico)
Dr. Baoxia Mi (George Washington University)
Dr. Jianbing Li (University of Northern British Columbia)

Dr. Jiangyong Hu (National University of Singapore)
Dr. Qin Qian (Lamar University)
Dr. Yinjie Tang (Washington University in St. Louis)
Dr. Huichun (Judy) Zhang (Southern Illinois University Edwardsville)

Funding Opportunities and Proposal Deadlines

NSF FY 2011 EFRI Topics

Two new topic areas (listed below) were announced for the FY 2011 EFRI Solicitation.

TOPIC 1: MULTICELLULAR AND INTER-KINGDOM SIGNAL

TOPIC 2. MIND, MACHINES, AND MOTOR CONTROL

The EFRI Office has just released a solicitation for above topic. Letter of Intent deadline: Oct. 4, 2010. For this solicitation, EFRI seeks proposals with transformative ideas that represent an opportunity for a significant shift in fundamental engineering knowledge with a strong potential for long term impact on national needs or a grand challenge. The proposals must also meet the detailed requirements delineated in this solicitation.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13708&org=EFRI

Announcements

CAPEES Gathering at the ACS Boston National Meeting, August 22-26, 2010

The next CAPEES gathering will be held at the ACS National Meeting in Boston, MA, August 22-26, 2010. For more details, please contact Prof. Ching-Hua Huang (e-mail: ching-hua.huang@ce.gatech.edu).

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