



IACIP NEWSLETTER ISSUE 8

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Associate Editors: Mr. Fulin Zou, The Hong Kong Polytechnic University; Dr. Guoyang Lu, The Hong Kong Polytechnic University; Mr. Haopeng Wang, Delft University of Technology
IACIP's Public Relation Committee Chair: Prof. Zhen Leng, The Hong Kong Polytechnic University

Preface

Dear IACIP members and friends,

It was my great honor to serve the role of IACIP President for the term of 2020. 2020 was an extraordinary year due to the impact of COVID-19 pandemic, which significantly changed the way of our research activities, and most importantly, the way of our lives. On behalf of the board of directors of IACIP, I would like to thank you all for your continuous support to advance the visions of IACIP despite the unexpected challenges.



With the collective contributions of members and friends, we successfully organized a series of events and activities in the past year. The 10th IACIP annual workshop was held on January 12, 2020, in conjunction with the Transportation Research Board (TRB) 99th Annual Meeting in Washington, D.C. We also organized several other events, such as "Webinar on Smart Pavement Technology" and "Webinar on Sustainable Pavement Technology".

I am optimistic and excited about the possibilities that current and future challenges can open for the IACIP. I appreciate your hard work and commitment, and hope to continue counting on your participation in our coming activities and initiatives! Under the leadership of the new president of IACIP for 2021, Prof. Zhanping You, I am sure IACIP can remain a vibrant communication home for the Chinese infrastructure professionals throughout the world.

I wish all of you stay safe and healthy!

A handwritten signature in black ink, appearing to read "Baoshan", written in a cursive style.

Baoshan Huang, Ph.D., P.E.

President of IACIP 2020

IACIP Annual Events

IACIP 2020 Annual Workshop

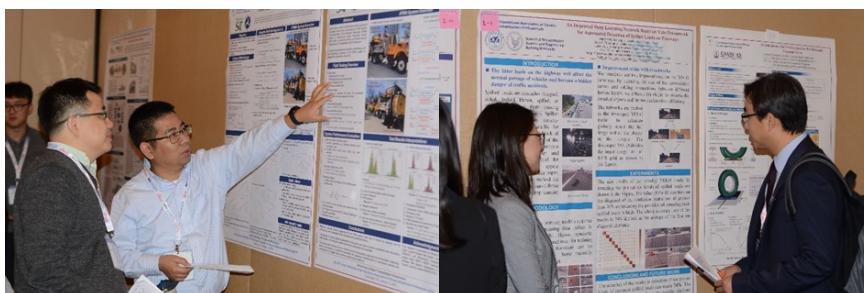


The 10th IACIP annual workshop was held on January 12, 2020, in conjunction with the Transportation Research Board (TRB) 99th Annual Meeting in Washington, D.C. The theme of this workshop was "Advancing Intelligent Transportation Infrastructure". The workshop organization committee appreciated sponsorship from the Research Institute of Highway Ministry of Transport, South China University of Technology, and Shanghai Daochun Traffic Technology Co. Ltd.

Dr. Jenny Liu from Missouri University of Science and Technology chaired this workshop, and

the annual workshop's final program included two keynote speakers: Dr. Bjorn Birgisson from Texas A&M University and Dr. Genda Chen from Missouri University of Science and Technology gave keynotes on New Intelligent Decision Support System for Flexible Pavements, and Empowering and Rejuvenating Civil Engineering Profession with Informatics, Automation and Actuation. Another 14 technical presentations were given in areas of pavement preservation, innovative materials, issues and solutions, and emerging technologies.

28 posters were also presented by students through the IACIP annual student poster competition, and 7 participating students received poster awards. These students are: 1st prize - Jingnan Zhao (Rutgers), 2nd prize - Hanli Wu (Missouri S&T), and 3rd prize - Xudong Fan (Case Western Reserve University), Sara Fayek (Missouri S&T), Feng Guo (South Carolina State University), Jun Liu (Missouri S&T), Yan Zhang (Washington State University), and Xingxing Zou (Missouri S&T).

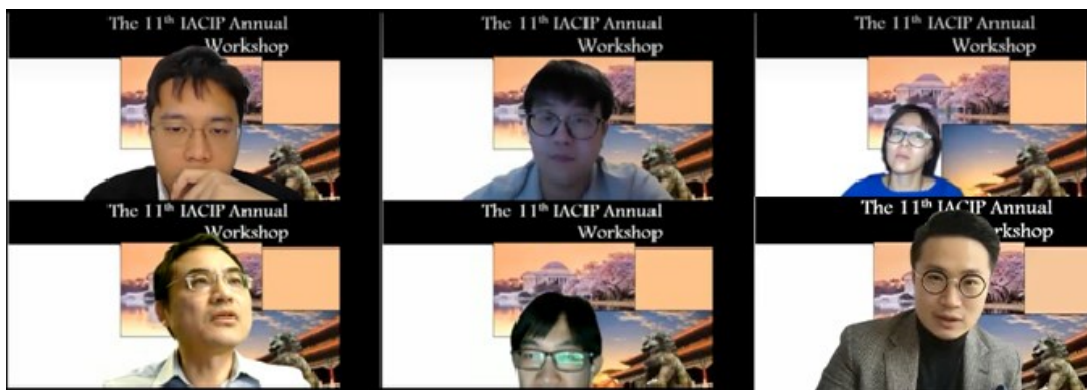


IACIP Annual Events

IACIP 2021 Annual Workshop

The 11th IACIP annual workshop was held virtually on Sundays, January 10 and 17, 2021. Both the sessions were live streaming on the Tencent Meeting (VooV meeting outside China) platform between 8:00 am and noon, Beijing Time. The theme of this year's workshop was "Resilient Infrastructure towards a Rapidly Changing World". The annual workshop final program included two keynote speeches, 16 podium presentations, and 12 invited student poster presentations. At the end of the workshop, the IACIP Outstanding Graduate Student Awards and Student Poster Awards were presented. The workshop recordings are available at: <https://www.iacip.net/annual-meeting>.

This year's workshop was co-chaired by **Dr. Qing Lu** from the University of South Florida and **Dr. Xijun Shi** from Texas State University. Dr. Yue Hou from Beijing University of Technology served as the workshop secretary. Dr. Qian Zhang from Florida State University was the presentation planning subcommittee chair, and Dr. Huayang Yu from South China University of Technology and Dr. Guoyang Lu from The Hong Kong Polytechnic University were the student poster planning subcommittee co-chairs.



The online workshop attracted 100 attendees. 28 posters were presented by students through the IACIP annual student poster competition, and 12 participating students received poster awards. These students are: 1st prize - Danning Li (HK PolyU), 2nd prize - Siqi Zhou (Beihang), Wei Sun (Rutgers), Anyou Zhu (Missouri S&T) and 3rd prize - Anqi Chen (University of Nottingham), Peide Cui (Wuhan University of Technology), Hanli Wu (Missouri S&T), Pengyu Xie (Rutgers), Chen Yang (Harbin Institute of Technology), Linyi Yao (HK PolyU), Zheng Zhang (South China University of Technology) and Fuliiao Zou (HK PolyU).

IACIP Annual Events

The 5th International Conference on Transportation Infrastructure and Materials (TIM 2021)

The International Conference on Transportation Infrastructure and Materials (ICTIM) is an annual international conference in the field of transportation infrastructure and materials. With its excellent academic atmosphere and high scholarly level, ICTIM has been internationally recognized for timely showcasing research development and enhancing technology transfer in the field of transportation infrastructure and materials. ICTIM was initiated by the International Association of Chinese Infrastructure Professionals (IACIP). The 5th ICTIM was postponed due to the COVID-19 pandemic, and is tentatively re-scheduled to be hosted in October 2021 at Changsha, China. IACIP and the Changsha University of Science & Technology (CSUST) will closely monitor the status of the situation and update the conference date on the website once it is finalized. Currently, the conference continues to accept and review papers. The high quality papers will be recommended for publication consideration at journals including: Journal of cleaner production, Journal of materials in civil engineering, Journal of transportation engineering part B: pavements, Transportation geotechnics, Underground space, China journal of highway and transport, Journal of traffic and transportation engineering, etc. For more information, please visit: <https://www.ictim.org/>.



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Awards and News

IACIP 2020 Outstanding Graduate Student Award

Ph.D. students

1st prize

Haopeng Wang (Delft University of Technology)

Sen Du (Washington State University)

2nd Prize

Dongdong Ge (Michigan Technological University)

Guoqiang Sun (Tongji University)

3rd Prize

Bingye Han (University of Tennessee)

Guoyang Lu (RWTH Aachen University)

Jiaqing Wang (Michigan Technological University)

Honorable mention: Xiaodan Chen (Rutgers University)

MS student

1st Prize

Sheqiang Cui (The Hong Kong Polytechnic University)

IACIP 2021 Outstanding Graduate Student Award

Ph.D. students

1st prize

Jun Liu (Missouri University of Science and Technology)

2nd Prize

Yuetan Ma (University of Tennessee)

Li Yi (Tongji University)

Zhuoying Jiang (Case Western Reserve University)

3rd Prize

Wei Sun (Rutgers University)

Feng Guo (South Carolina State University)

Qilin Yang (Harbin Institute of Technology)

Mingjun Hu (Tongji University)

Siqi Zhou (Beihang University)

MS student

1st Prize

Yunfei Guo (South China University of Technology)

Awards and News

Geotechnical Scholarship and Fellowship Award

IACIP student members **Sara Fayek**, **Xiaolong Xia**, **Javad Galinmoghadam**, **Hanli Wu**, and **Beshoy Riad**, supervised by Dr. Jenny Liu and Dr. Xiong Zhang, received the scholarships and fellowships in geotechnical engineering from the Department of Civil, Architectural, and Environmental Engineering at Missouri S&T in spring 2020. The students were awarded in recognition of their exemplary performance and scholarly activities during the year 2019:

Sara Fayek: \$1,600 Shannon & Wilson, Inc. – Richard Frueh Memorial Scholarship

Xiaolong Xia: \$1,600 Shannon & Wilson, Inc. – Richard Frueh Memorial Scholarship

Javad Galinmoghadam: \$1,600 Mark A. Harms Fellowship

Hanli Wu: \$1,600 Ron Eckelkamp Memorial Fellowship

Beshoy Riad: \$2,600 Norbert Schmidt Fellowship

Waheed Uddin Outstanding Graduate Student Awards

Missouri S&T Ph.D. students, **Hanli Wu**, **Jun Liu**, and **Beshoy Riad**, supervised by Dr. Jenny Liu and Dr. Xiong Zhang, have been awarded the first Waheed Uddin Outstanding Graduate Student Award by the National Center for Transportation Infrastructure Durability and Life-Extension (TriDurLE) for their outstanding performance. Congratulations to the following winners:

First Place (with \$1000 cash prize)

Hanli Wu, Missouri University of Science & Technology

Jun Liu, Missouri University of Science & Technology

Second Place (with \$500 cash prize)

Beshoy Riad, Missouri University of Science & Technology

UTC Student of the Year Award

Doctoral student **Yan Zhang** at Washington State University has been named the University Transportation Center (UTC) Student of the Year.

Awards and News

APSE Outstanding Service Award



Dr. Guoyang Lu (who was a Ph.D. student in RWTH Aachen University, and is now a research assistant professor in The Hong Kong Polytechnic University) was awarded the "APSE Outstanding Service by a Student Member Award" on the Academy of Pavement Science and Engineering (APSE) 2020 Annual Meeting, for his significant contributions in activities related to APSE's mission and demonstrated independence in leading such activities. The award was given by Dr. Zhen Leng (Associate Professor in The Hong Kong Polytechnic University), who

was announced earlier as the new chair of the APSE Award Committee.

High Value Research Projects Award

A research team supervised by **Dr. Xianming Shi** has won a High Value Research Projects Award in RAC 2020 Supplemental Categories - Maintenance, Management and Preservation from the American Association of State Highway Transportation Officials (AASHTO). The winning research project is titled "Bio-Based Renewable Additives for Anti-Icing Applications". Congratulations to the researchers from Washington State University: Mehdi Honarvar Nazari, Taekil Oh, Alexander Charlemagne Ewing, Deborah Ave Okon, Yan Zhang, Brandon Avalos, Eisa Alnuaimi, Eden Adele Havens, and Xianming Shi. <https://research.transportation.org/sweet-sixteen-2020/>.

Awards and News

Recipient of the Robert M. Koerner Award



Dr. Jie Han, Glenn L. Parker Professor of Geotechnical Engineering in the Civil, Environmental, and Architectural Engineering Department at the University of Kansas, was selected for the Robert M. Koerner Award, to honor Dr. Koerner's legacy in the geosynthetics industry, considering his significant contribution in theoretical and practical research on geosynthetics. <https://ceae.ku.edu/professor-jie-han-selected-robert-m-koerner-award/>.

Fellow of the International Association of Advanced Materials



Dr. Zhanping You, Professor of Transportation Engineering and Materials in the Civil and Environmental Engineering Department at Michigan Technological University, has been named a Fellow of the International Association of Advanced Materials (FIAAM). The fellow of IAAM is recognized as a prestigious title that is only conferred upon deserving researchers who have made some significant contribution to the world of materials science, engineering and technology.

Awards and News

Executive Editor of Journal of Cleaner Production



Dr. Zhen Leng, Associate Professor in the Civil and Environmental Engineering Department at The Hong Kong Polytechnic University, was promoted to an executive editor of the Journal of Cleaner Production (JCLP) starting January 01 2021. JCLP is a transdisciplinary journal aiming at helping societies become more sustainable. The topics of this journal mainly include cleaner production, environmental, and sustainability research and practice. [https://](https://www.journals.elsevier.com/journal-of-cleaner-production/editorial-board)

www.journals.elsevier.com/journal-of-cleaner-production/editorial-board.

Fellow of the American Society of Civil Engineers



Dr. Xianming Shi, Associate Professor in the Civil and Environmental Engineering Department at Washington State University, has been elected a fellow of the American Society of Civil Engineers (ASCE). ASCE fellows make up only three percent of the approximately 150,000 members of the organization, which is the oldest engineering society in the U.S. Fellows are recognized for their contributions and solutions that change lives around the world. <https://news.asce.org/shi-attains-asce-fellowship/>.

<https://news.asce.org/shi-attains-asce-fellowship/>.

Associate Editor of Journal of Nondestructive Evaluation

Dr. Xianming Shi has been invited to be an associate editor of the Journal of Nondestructive Evaluation for his expertise in corrosion and electrochemical techniques. This interdisciplinary journal publishes papers on the development of new equipment, analyses, and approaches to nondestructive measurements. [https://](https://www.springer.com/journal/10921/editors/)

www.springer.com/journal/10921/editors/.

Awards and News

Regents Professor of Civil and Environmental Engineering



IACIP founding member, **Dr. Kelvin Wang**, Professor in the Civil and Environmental Engineering Department at Oklahoma State University, has been named a Regents Professor, the highest faculty honor at Oklahoma State University. Dr. Kelvin Wang is a university faculty and researcher with a substantial professional society service record since 1993. For nearly 30 years, Dr. Wang led his team to tackle the problem of automating surveys of pavement distresses. His work profoundly changed the landscape of pavement survey and is closely followed by industry and researchers on a worldwide basis. His technological contributions in recent years include sub-mm 3D laser imaging of pavements at full-lane coverage and highway speed for data collection, and automated data processing for distresses and safety evaluations based on unique and novel Deep-Learning techniques. His technologies are used in the US, Brazil, South Africa, China, and Japan. Dr. Wang is considered a world leader in automated sensor technology and software solutions for roadway and airfield pavement surveys. He received two awards from the American Society of Civil Engineers (ASCE): 2011 Masters and 2017 Turner. He is a former president of ASCE Transportation & Development Institute (T&DI). He is a co-editor-in-chief of the International Journal of Rail Transportation. <https://academicaffairs.okstate.edu/regents-professors/regents-professors-bios/wang-kelvin.html/>.

Awards and News

Associate Editor of ASCE Journal of Cold Regions Engineering



Dr. Xiong Zhang from the Department of Civil, Architectural, and Environmental Engineering at Missouri S&T was invited to serve as an associate editor of ASCE Journal of Cold Regions Engineering, which is a world's leading peer-reviewed scientific journal in the general area of cold regions engineering published by the American Society of Civil Engineers. Established in 1987, the topics of this journal include ice engineering, ice force, construction on permafrost and seasonal frost, cold weather construction, environmental quality and engineering in cold regions, snow and ice control, cold regions materials, and surveying and planning in cold regions. <https://ascelibrary.org/journal/jcrgei>.

S&T Faculty Research Award

Dr. Xiong Zhang received the 2020 S&T Faculty Research Award. The Faculty Research Award recognizes faculty members who have demonstrated excellence in research and scholarship.

Chair of ASCE Geo-Institute Shallow Foundation Committee

Dr. Xiong Zhang was nominated to serve as chair of ASCE Geo-Institute Shallow Foundation Committee. The Shallow Foundation Committee provides leadership in applying engineering principles related to the design, construction, and maintenance of shallow foundations. The committee accomplishes these tasks by participating in and sponsoring Geo-Institute activities such as conferences and special publications. The committee also works with other ASCE committees and professional societies to improve and expand the understanding of shallow foundations for design professionals and the general public by reviewing, developing, and publishing technical papers, guidelines, and informational pamphlets. <https://www.asce.org/templates/membership-communities-committee-detail.aspx?committeeid=000000885154>.

Awards and News

Keynote Speech at Geo-Congress 2020 Conference



Dr. Xiong Zhang, Professor in Geotechnical Engineering at Missouri S&T, was invited to give a keynote speech on “Use of Wicking Fabric to Dehydrate Road Embankment under Unsaturated Conditions” at GEO-Omaha 2020, 37th Annual Geotechnical Conference, organized by the American Society of

Civil Engineers, Nebraska Section – Geotechnical Group and Geo-Institute Nebraska Chapter in Omaha, NE on Friday, February 21, 2020.

Coming Events

2021 ASCE T&DI Conference

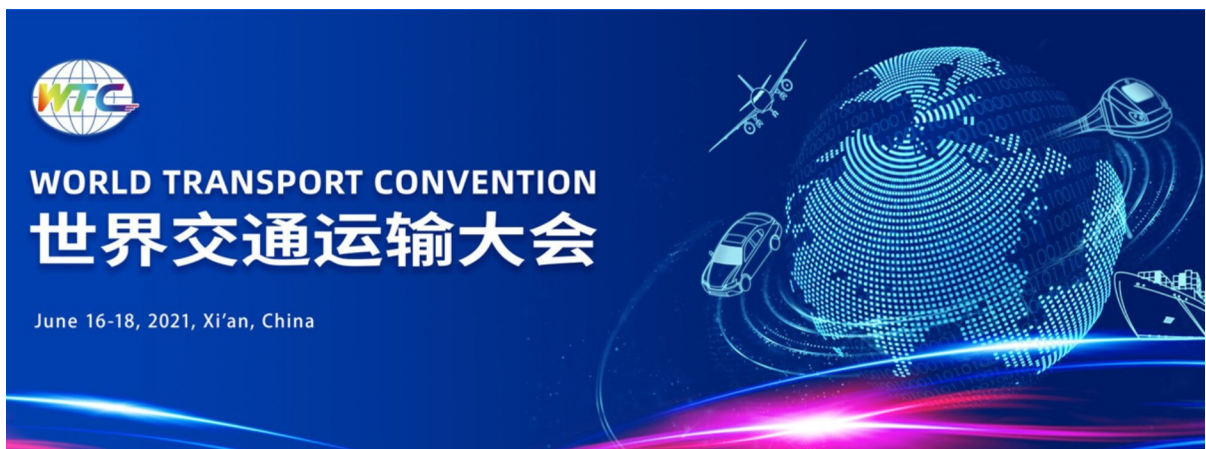
The International Airfield and Highway Pavements Conference of the Transportation & Development Institute (T&DI) of ASCE will be hosted online June 8 - June 10, 2021. IACIP board member, **Dr. Zhen Leng** from The Hong Kong Polytechnic University, serves as a conference co-chair. This international conference will provide an unrivaled chance to interact and exchange information with worldwide leaders in the fields of highway and airport pavements, as well as airport safety technologies. For more information, please visit: <https://www.pavementsconference.org/>.



Coming Events

WTC 2021

Hosted by China Association for Science and Technology (CAST), Ministry of Transport (MOT) and Chinese Academy of Engineering (CAE), organized by China Highway & Transportation Society (CHTS), the 2021 World Transport Convention (WTC 2021) is scheduled to be held in Xi'an on June 15-19, 2021. It will feature industry forums, technical presentations, as well as paper and poster sessions. WTC 2021 will serve as a platform for researchers, scholars, practitioners, government officials from around the globe to present their work, share their experience, discuss cutting-edge technology, and explore solutions to the common challenges the transportation industry faces today. For more information, please visit: <https://en.wtc-conference.com/>.



Coming Events

iFRAE 2021

The International Symposium on Frontiers of Road and Airport Engineering (iFRAE) was started by the College of Transportation Engineering of Tongji University in 2011. The iFRAE 2021 will be hosted on July 12-14, 2021 by the Section of Pavement Engineering, Delft University of Technology, the Netherlands, co-chaired by IACIP board member, **Dr. Xueyan Liu**. The theme of the iFRAE 2021 is to promote research in the field of “Circular, Sustainable and Smart Airport and Highway Pavements” and is dedicated to the state-of-the-art and state-of-practice areas of long-life and circular materials for sustainable, cost-effective smart airport and highway pavement construction. This symposium will facilitate the exchange of new ideas in these fields among academicians, engineers, scientists and practitioners. It includes plenary, keynote and invited speech, oral presentation sessions on different topics. Due to the pandemic, the symposium will be held online. Accepted full papers will be published in conference proceedings. Selected papers will be published in special issues of several selected renowned journals. For more information, please visit: <https://www.ifrae-delft.com/>.



Coming Events

TRC 2021

The Transportation Research Congress (TRC) will be hosted on November 5-7, 2021 by the TRC2021 committees and Zhejiang University in Hangzhou, China. To promote the exchange of newest research findings and practical experiences in transportation, TRC is intended to serve as a global platform for researchers, educators, practicing engineers, investors, entrepreneurs, and governmental officials from all over the world. The TRC is dedicated to “High Impact, Cutting Frontier” research that has been the hallmark of our meeting. The abstract and paper submissions are open, the TRC committees are organizing peer review and selecting promising ones for recommendation of poster/oral presentation and/or publication through the journals that are supporting our conference, including Journal of Cleaner Production, Resources, Conservation & Recycling, Transportation Geotechnics, Advances in Materials Science and Engineering. For more information, please visit: <http://www.trc-c.org/>.



IACIP Board Members and Committee Chairs

2020 IACIP Board

President: Prof. Baoshan Huang, University of Tennessee

Vice President: Prof. Zhanping You, Michigan Technological University

Member: Prof. Lu Gao, The University of Houston

Member: Prof. Zhen Leng, The Hong Kong Polytechnic University

Member: Prof. Juanyu (Jenny) Liu, Missouri University of Science and Technology

Member: Prof. Xueyan Liu, Delft University of Technology

Member: Prof. Xianming Shi, Washington State University

Member: Prof. Shihui Shen, Pennsylvania State University, Altoona

Member: Prof. Mingjiang Tao, Worcester Polytechnic Institute

Member: Prof. Hao Wang, Rutgers, The State University of New Jersey

Member: Prof. Bill (Xiong) Yu, Case Western Reserve University

Member: Prof. Xiong Zhang, Missouri University of Science and Technology

Past Presidents

1st Past President: Dr. Zhongjie “Doc” Zhang, Louisianan Transportation Research Center

2nd Past President: Prof. Linbing Wang, Virginia Tech

3rd Past President: Dr. Yingwu Fang, Virginia Department of Transportation

4th Past President: Prof. Jie Han, The University of Kansas

5th Past President: Dr. Chung Wu, Virginia Department of Transportation

6th Past President: Prof. Shihui Shen, Pennsylvania State University, Altoona

Founding Committee

Chair: Dr. Zhongjie “DoC” Zhang, Louisianan Transportation Research Center (LTRC)

Member: Dr. Yingwu Fang, Virginia Department of Transportation

Member: Prof. Jie Han, The University of Kansas

Member: Prof. Kelvin Wang, Oklahoma State University

Member: Prof. Linbing Wang, Virginia Tech

Member: Dr. Chung Wu, Virginia Department of Transportation

Member: Prof. Zhanmin Zhang, The University of Texas at Austin

IACIP Board Members and Committee Chairs

2020 IACIP Committees and Task Group Chairs

Bylaw Committee

Prof. Zhanmin Zhang, The University of Texas at Austin

Nomination Committee

Prof. Xiong “Bill” Yu, Case Western Reserve University

Strategic Planning Committee

Prof. Xiong Zhang, Missouri University of Science and Technology

Annual Activities Committee

Prof. Hao Wang, Rutgers, The State University of New Jersey

- ◇ DC Local Chapter: Prof. Lei Wang, University of the District of Columbia

Public Relation Committee

Prof. Zhen Leng, The Hong Kong Polytechnic University

- ◇ Newsletter Task Group: Prof. Zhen Leng, The Hong Kong Polytechnic University
- ◇ Website Development Task Group: Dr. Yilong Liu, Louisiana Department of Transportation and Development (LA DOTD)
- ◇ WeChat and Social Media Communications Task Group: Prof. Weiguang Zhang, Southeast University
- ◇ WeChat Official Account: Prof. Shenghua Wu, University of South Alabama

Fundraising Committee

Dr. Xueyan Liu, Delft University of Technology

Membership Committee

Prof. Lu Gao, The University of Houston