



**Carlos M. Chang, Ph.D., P.E.**

Associate Professor

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**VISION STATEMENT**

I am willing to serve as President of iSMARTi to strengthen the leadership role of our society by increasing the visibility of our members. iSMARTi is composed of an international network of experts from academia and professional practice in search of solutions to worldwide transport challenges. As strong advocates of preserving infrastructure, we foster the development and implementation of the best sustainable practices. I believe that a synergistic collaborative approach will ignite new strategies in response to a world in constant change.

My commitment and energy will be devoted to making iSMARTi stronger by expanding our presence worldwide. As part of this strategy, I envision promoting focus groups to embrace an inclusive dialogue on present and future challenges. In collaboration with local, regional, and international organizations, we will identify relevant topics that require our expertise. Along with this effort, we will deliver technical workshops and partner with scholarly journals to document our achievements.

I am convinced that the sharing of knowledge through education is a core value of our society and a key player in our strategic plan of action. Following this vision, we will promote active participation in ICTI, MAIREPAV, MAIREINFRA, and ICSC conferences. Throughout my career and personal life, I have learned the importance of listening and the power of effective communication. Therefore, we will adopt efficient means to facilitate the flow of communication among our members and friends of our society. We will use different professional and social platforms to communicate our activities and attract new members. As part of our strategy, we will schedule face-to-face and virtual meetings to share innovative concepts and state-of-the-art worldwide best practices. The focus will be on sharing technical knowledge while enjoying our social events since both are important dimensions of iSMARTi. I have been fortunate to visit many countries and I truly enjoy tasting traditional food and experiencing the diverse beauty of cultures.

Finally, I want to emphasize that my vision relies upon three fundamental pillars: commitment, communication, and collaboration. I am believer of teamwork and iSMARTi will only evolve by working together in a collaborative manner towards a common goal. As an overarching goal, iSMARTi should pave the way to a better world making significant contributions towards the well-being of local, regional, national, and international communities. I expect you to embrace this vision and join us in this effort that should be ultimately reflected in a better quality of life by balancing environmental, economic, and social sustainability needs of present and future transport challenges.



With Waheed Uddin  
1<sup>st</sup> President



With Paulo Pereira and T.F. Fwa  
2<sup>nd</sup> and 3<sup>rd</sup> President



With Hosin "David" Lee  
4<sup>th</sup> President



With João Virgilio Merighi  
5<sup>th</sup> President

My gratitude to the former Presidents and current President of iSMARTi for their mentoring. I promise to respect iSMARTi's statutes and bylaws and build upon the legacy of our society with integrity and transparency in all our actions.



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Carlos M. Chang, Ph.D., P.E., is an Associate Professor at the Department of Civil and Environmental Engineering at Florida International University (FIU). Prior to joining FIU in August 2020, Dr. Chang worked as an Associate Professor at the Department of Civil Engineering at the University of Texas at El Paso (UTEP), Associate Researcher at the Texas A&M Transportation Institute (TTI), and international consultant for the Inter-American Development Bank (IDB) and engineering companies in road projects overseas.

Dr. Chang is recognized as an global expert on infrastructure with a focus on pavements and bridges. His main interest is in the development and maintenance of infrastructure smart systems that integrate sustainability principles with civil engineering practices towards the preservation of infrastructure assets. Dr. Chang's research work involves the development of innovative concepts, models, methods, and tools. Principal Investigator (PI) and Co-Principal Investigator (Co-PI) of more than 30 research projects with a total budget of over \$12 Million, Dr. Chang's research projects have been sponsored by the National Highway Cooperative Research Program (NCHRP), Metropolitan Transportation Commission in California (MTC), Accelerated Bridge Construction Center (ABC), Texas Department of Transportation (TxDOT), El Paso Metropolitan Planning Organization (MPO), and the City of El Paso. His research work is documented in more than 200 publications in peer-reviewed journals, conference proceedings, books, and technical reports.

Dr. Chang's has a passion for education with an extensive teaching portfolio of more than fifteen undergraduate and graduate level courses. Due to his unique combination of academic and practical experience, Dr. Chang developed the "Engineering in Practice" program to extend the students' education beyond the classroom by merging teaching, research, and service. This program was three-times recipient of the "Engineering Award for Connecting Professional Practice and Education" by the National Council of Examiners for Engineering and Surveying (NCEES). Dr. Chang has also been recipient of the TSPE Excellence Award from the Texas Society of Professional Engineering for promoting professional practice through education. At present, Dr. Chang is licensed as a professional engineer in Florida, Texas, and Peru and actively participates in Board committees and events.

Dr. Chang has led several technical committees and expert groups. Dr. Chang served as the Chair of the V International Conference on Transportation and Infrastructure (ICTI) organized by iSMARTi and the Instituto de Construcción y Gerencia (ICG) in 2022. He is the former Chair of the American Society of Civil Engineers Infrastructure Systems Committee (ASCE – ISC) and past Research Coordinator of the Transportation Research Board (TRB) Pavement Management Systems Committee. At present, Dr. Chang is the Chair of the International Road Federation (IRF) Asset Management Task Force, Vice President of iSMARTi in the U.S., and Delegate of the Ibero-Latin-American Asphalt Congress (CILA). Dr. Chang received the International Road Federation Fellowship award in 1997 and the iSMARTi Achievement Award for Outstanding Service in 2022.

Dr. Chang is a member of editorial boards and reviewer of manuscripts for conference proceedings, peer-review journals, and book publications. Editor-in-chief of the proceedings for the V International Conference on Transportation and Infrastructure (V ICTI), and the AASHTO "Mechanistic-Empirical Pavement Design Guide" Spanish version, Dr. Chang is frequently invited as a keynote speaker at international conferences and subject-matter expert on technical committees.

**Carlos M. Chang, PhD, PE**  
**Associate Professor**  
**Department of Civil and Environmental Engineering**  
**Florida International University**

**EDUCATION**

- 2007, Ph.D., Civil Engineering, Texas A&M University, College Station, Tx, U.S.
- 1999, M.S., Civil Engineering, Texas A&M University, College Station, Tx, U.S.
- 1991, Civil Engineer, National Engineering University, Lima, Perú.
- 1989, B.S., Civil Engineering, National Engineering University, Lima, Perú.

**PROFESSIONAL CAREER**

- 08/2020 - Present, Associate Professor, Florida International University (FIU), Miami, Florida, U.S.
- 08/2008 – 07/2020 Assistant/Associate Professor, University of Texas at El Paso (UTEP), Texas, U.S.
- 01/2005 – 07/2008, Associate Researcher, Texas A&M Transportation Institute (TTI), College Station, Texas, U.S.
- 05/2004 – 06/2008, External Consultant, Inter-American Development Bank (IDB), U.S.
- 01/2000 – 08/2002, Head of the Road Design and Quality Control Department, CESEL S.A., Lima, Perú.
- 08/1999 – 12/1999, Pavement and Materials Engineer, Resource International, Columbus, Ohio, U.S.
- 08/1998 – 07/1999, Research Assistant, Texas A&M Transportation Institute (TTI), College Station, Texas, U.S.
- 06/1993 – 07/1997, Pavement and Materials Engineer, CESEL S.A., Lima, Perú.

**iSMARTi ACTIVITIES**

- 2008 - present, Member.
- 2016 - present, Vice-President of the North American Region
- Conference Chair, ICTI 5 (2022).
- Attended ICTI 1(2008), ICTI 3 (2014), MAIREPAV 8 (2016), ICTI 4 (2018), ICSC1 (2019). ICTI 5 (2022 and 2023), MAIREPAV 10 (2024).

**PROFESSIONAL ACTIVITIES**

- 2023 - Present Chair of the Road Asset Management Task Force, International Road Federation (IRF), U.S.
- 2019 – 2023, Chair of the Infrastructure and Systems Committee, American Society of Civil Engineers (ASCE), Transportation and Development Institute (TDI), U.S.
- 2017 – 2023, Chair of the Research Subcommittee of the AFD 10 Pavement Management Systems Committee, Transportation Research Board, U.S.
- 2013 - 2023, Member of AHD18 Pavement Preservation Committee, Transportation Research Board, U.S.
- Chair, Committee on Implementation of Mechanistic- Empirical Pavement Design (CIDMEP) in Latin-America.
- Board Member, Construction Management Institute, Perú.
- Visiting Professor, Universidad Ricardo Palma, and Universidad de Piura, Perú; Universidad EAFIT, Colombia.
- Active Member, Florida Board of Professional Engineers (P.E. 91891), Texas Board of Professional Engineers (P.E. 101970), and Peruvian Board of Engineers (P.E. 39748).
- Keynote Speaker in more than 20 countries.

**AWARDS and PROFESSIONAL RECOGNITIONS**

- Achievement Award for Outstanding Service, iSMARTi.
- 2018, Excellence Award, Texas Society of Professional Engineers (TSPE)
- 2008, 2009, 2024, 2019 Outstanding Research Performance Award, University of Texas at El Paso.
- 2013, 2014, Outstanding Reviewer, Journal of Infrastructure Systems, ASCE.
- 2011, 2012, and 2013, NCEES Engineering Award for Connecting Professional Practice and Education. National Council of Examiners for Engineering and Surveying.
- 1997, International Road Federation Fellowship.

**HOBBIES and OTHERS**

- Traveling and experiencing the diverse beauty of cultures.
- Tasting traditional food worldwide.
- Walking and sightseeing.