

美国科学基金会土木学科(前)主任刘师琦博士报告会



报告题目: New CE Road Direction Through Reform and Innovation

报告人: Dr. S. C. Liu Former Program Director, the US-NSF

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报告简介: Civil Engineering is a major engineering professional which shares an important portion of a nation's economic and employment values. Yet, it is also considered to be probably the most conservative engineering discipline among most of its counterparts such as EE, CS&E, ChemE, ME, BioE, etc. The recent global transformations in many aspects of the world have led to a general recognition of (1) civil infrastructure, particularly smart infrastructure, (2) MegaCity and MegaDisaster Reduction, and (3) Integration of new Education reform paradigm and its integration with novel, pioneering R/D programs have combined to emerge as the new CE challenges in the profession.

In this report, how and what Civil Engineering should do to timely establish a strategic new road map that would lead our professional into a more innovative and productive entity are addressed. Outcomes of the recent efforts to reform the CE profession including the international Forum on Civil Engineering Reform held in Southeast University in 2014 are reported. Some meaningful follow-up activities are suggested.

报告人简介: Dr. Shih-Chi Liu is currently an adjunct professor at Southeast University and Nanjing Tech. He is a former director for the earthquake hazard mitigation program and the sensors and smart structures program at the US National Science Foundation (NSF). He received his B.S. degree in civil engineering at National Taiwan University in 1960, and his Ph.D. degree in civil engineering at University of California-Berkeley in 1967. He worked at Bell Telephone Laboratories as a researcher in 1967-1975, and worked at the US-NSF in 1975-2012, has been a charismatic, visionary, and creative leader in the world community of earthquake engineering, infrastructural engineering, and smart structures technology. As a program director at the NSF, he initiated, developed, and managed high-impact international programs, such as US-China program after Tangshan earthquake, US-Japan cooperative research on large-scale testing, Network for earthquake engineering simulation (NEES), and Asia-Pacific and European network of centers for smart structures technology. His transformative efforts, enabling researchers from around the globe to work together on common societal problems, have been recognized by countless professional societies in the US and worldwide.