**THE CHINESE UNIVERSITY OF HONG KONG**
**Department of Electronic Engineering**

**Seminar**

# Seminar II: High efficient and broadband water antennas

**Professor Qing-Xin Chu**
**Professor, School of Electronic and Information Engineering, South China University of Technology, China**

**Date:** 21 December 2018 (Friday)
**Time:** 2:00 p.m.
**Place:** Rm 222, Ho Sin Hang Engineering Building, CUHK

## Abstract

With the unique advantage of transparency, high permittivity, easily accessible and low cost, water is used to construct an antenna, as the loading dielectric or radiator in place of metal. In recent years, water antennas have drawn more and more attention. However, it's difficult to take into account both performance of broadband and high efficiency. This talk lays emphasis on the recent research results on water antennas by professor Chu Qing-Xin's team of South China University of Technology. The research is supported by national Natural Science Foundation of China, and the research contents include hybrid water antennas, water dielectric dense patch antennas and reconfigurable water antennas.

## Biography of the Speaker

Qing-Xin Chu is the chair professor with the School of Electronic and Information Engineering, the director of the Research Institute of Antennas and RF Techniques, the director of the Engineering Center of Antennas and RF Techniques of Guangdong Province, director of the Electrical Information and Control National Experimental Teaching Demonstration Center in South China University of Technology. He is the founder and chair of IEEE Guangzhou AP/MTT Chapter, vice-chair of China Electronic Institute (CEI) Antenna Society, IEEE Fellow and CEI Fellow. His undergraduate course "Radio Frequency Circuit and Antenna" was rated as the national high-quality course in 2009, and the national high-quality resource-sharing course in 2012. He was awarded with the title of excellent teacher of Guangdong Province in 2010. He has published more than 400 academic papers with SCI citations more than 3,000 times, especially more than 70 of which has been published in the IEEE Transactions on Microwave Theory and technology, IEEE Transactions on Antennas and Propagation. since 2008， many papers became the top ESI (Essential Science Indicators) papers, In 2018, 8 papers (2 for 1% and 6 for 3%) were selected for ESI highly cited papers. Since 2014, he has been selected as the highly cited scholar of China in electrical and electronic engineering field by Elsevier every year. It has been authorized more than 60 Chinese invention patents. He was the recipient of the Science Award by CEI in 2018 and 2016, the Science Award by Guangdong Province of China in 2013, the Science Awards by the Education Ministry of China in 2008 and 2002, the Fellowship Award by Japan Society for Promotion of Science (JSPS) in 2004, the Singapore Tan Chin Tuan Exchange Fellowship Award in 2003, the Educational Award by Shaanxi Province in 2003. His current research interests include antennas and microwave filters in wireless communication, spatial power combining technology.

***** ALL ARE WELCOME *****

*For enquiries, please contact Prof. K.L. WU, Department of Electronic Engineering at 3943 8287.*