

***Professor Chih-Chun Cheng***  
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Douglas **Chih-Chun Cheng** is currently professor and chairman of Department of Mechanical Engineering at National Chung Cheng University (CCU). He received his 1985 B.S. from National Cheng Kung University, 1990 MS and 1994 Ph.D. from North Carolina State University (USA). He worked as Adjutant Professor in Dept. of Mechanical and Nuclear Engineering at Pennsylvania State University (USA) in 2005. Now he also serves as Deputy Director of Advanced Institute of Manufacturing with High-tech Innovations (AIM-HI) and an editor of Journal of the Chinese Society of Mechanical Engineers. His industry background has included the work in General Electric Co. (USA) and Ford Motor Co. (USA). He also serves as technical consultant of several machine tool companies in Taiwan.

Dr. Cheng's technical interests lie in the areas of Structural acoustics, vibration and smart sensing. He has authored in excess of 60 professional articles including archival journal papers and professional conference articles in these areas. Dr. Cheng is the recipient of many awards including the Outstanding Research Award of CCU.

***Advanced Institute of Manufacturing with High-tech Innovations***  
***(AIM-HI): An Introduction***

The talk is divided into two parts. The first one is an introduction of a newly established institute called Advanced Institute of Manufacturing with High-tech Innovations, or abbreviated to AIM-HI, in National Chung Cheng University. One of the objectives of this institute is to collaborate internationally with academic community both on research and education. The 2012 AIM-HI Summer Internship program that helps the undergraduate/graduate students who look for a summer internship oversea will also be introduced. This paid internship is designed to offer students with an opportunity to gain hands-on practical experience and to explore the career at an academic research institute. The second part of the talk is to introduce the research related to the intelligent technology applied in the manufacturing. A research project in AIM-HI, named development of smart feed drive system funded by both government and private company will be presented as an example.