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**E**nergy **C**hallenges & **M**echanics  
- working on small scales

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### Speaker of Session 03

#### HYDROGEN GENERATION AND STORAGE



**Weizhong Qian** ( 蹇伟中 ) is Associate Professor of Chemical Engineering, Tsinghua University, China [2005-2014]. He received Ph.D. degree in Tsinghua University, China [2002] and worked at Tsinghua University for 12 years. He has been a visiting associate professor in Materials Science & Engineering, Cornell University, USA [2008].

His research has been focused on the techniques to prepare hydrogen and carbon nanotubes from methane by the chemical vapor deposition method using fluidized bed technology. He also developed the preparation technology of nanosized ZSM-5 for the use in the methanol to aromatics process. He is also a specialist in multiphase reactor engineering. He has designed many industrial scale reactors (diameter >5 m,

height >20 m) and expanded their applications in chemical industry of China, such as hydrogenation of nitrobenzene to aniline, methanol to aromatics. His research led to 40 patents (>20 issued) and >90 articles in international journals (including in *JACS*, *Nature Nanotechnol*, *Adv. Mater*, *Nano Lett*, *ACS Nano*, *Energy Environ Sci*, *ACS Catal*). He was awarded by the Natural and Scientific Award of ministry of education (MOE) of China [2005]; the Technical Invention Award of MOE of China [2012]; the second grade National Scientific and Technical Progress Award [2008]; excellent young scientist award of Chinese Society of Particuology [2008] and China Petroleum and Chemical Industry Federation [2012], and excellent patent award of State intellectual property office of China [2010].

