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

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### **Speaker of Session 11**

### **NANOMECHANICS**



Dr. Wolfgang Fischer (費伍岡) is Professor at the Institute of Biophotonics, School of Biomedical Science and Engineering, National Yang-Ming University, Taipei, Taiwan ([www.ym.edu.tw/~wfischer/](http://www.ym.edu.tw/~wfischer/)). He has obtained his PhD in Chemistry at Heidelberg University, Germany, working in the field of vibrational spectroscopy in 1991. After years in the US (Boston University, postdoctoral fellow working on bacteriorhodopsin using vibrational spectroscopy), Germany (TU-Dresden, habilitation in Analytical Chemistry, working on ion channels as potential biosensors), UK (Oxford University as EU Marie Curie Research Fellow and later as Lecturer working on viral ion channels using bilayer recordings and molecular dynamics simulations) he moved to Taiwan. The field of research is on biophysical aspects describing dynamics and energetics of protein-protein interactions (PPIs) of membrane proteins. The focus is on the development of computational platform technologies to support drug discovery and design as well as materials sciences.

