

# 交通大學數學建模與科學計算研究中心

Center of Mathematical Modeling and Scientific Computing, NCTU

## 2015 Workshop on Membranes and Ion Channels

### Description :

This workshop will focus on the problems arising from membranes and ion channels (or charged nanopores, electric double layers etc.). All researchers and students who are interested in these topics are welcome to participate this interdisciplinary workshop.

**Date: October 5 (Monday), 2015**

**Time : 09:30-18:00**

**Venue: SA307**(交通大學科學一館307室)



<b>Program :</b>	09:30-09:50	Registration
	09:50-10:00	Opening Remarks
	10:00-10:50	<b>Tai-Chia Lin</b> (National Taiwan University) Poisson-Nernst-Planck and Poisson-Boltzmann type equations
	11:00-11:50	<b>Song-Jeng Huang</b> (National Taiwan University of Science and Technology) AFM potential measurement of electric double layers on magnesium electrode
	11:50-12:20	Discussion
	12:20-14:00	Lunch
	14:00-14:50	<b>Tzyy-Leng Horng</b> (Feng Chia University) A charged nanopore model for nanofiltration (NF)
	15:00-15:50	<b>Hsuan-Yi Chen</b> (National Central University) Molecular machines and induced flow in and around a membrane
	16:00-16:20	Tea Break
	16:20-17:10	<b>Wei-Fan Hu</b> (National Chiao Tung University) Vesicle electrohydrodynamics: a numerical approach
	17:10-18:00	Discussion

**Organizer : Ming-Chih Lai (National Chiao Tung University)**