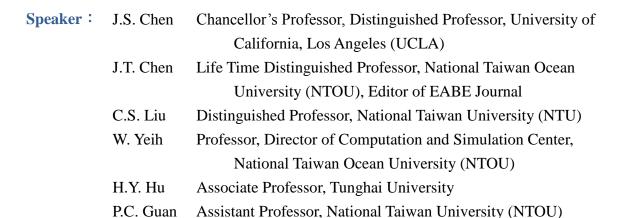# Mini Workshop on Recent Advances in Meshfree Methods and Computational Science and Engineering

迷你研討會：無網格法及計算科學與工程之最新發展

Time：Friday, March 11th, 2011, 13:30~18:05 PM

Place：Engineering School Auditorium, National Taiwan Ocean University

Speaker：

J.S. Chen	Chancellor's Professor, Distinguished Professor, University of California, Los Angeles (UCLA)
J.T. Chen	Life Time Distinguished Professor, National Taiwan Ocean University (NTOU), Editor of EABE Journal
C.S. Liu	Distinguished Professor, National Taiwan University (NTU)
W. Yeih	Professor, Director of Computation and Simulation Center, National Taiwan Ocean University (NTOU)
H.Y. Hu	Associate Professor, Tunghai University
P.C. Guan	Assistant Professor, National Taiwan University (NTOU)

Theme：

Scientific computing plays an increasing significant role in the advancement of science and technology in recent decades. This mini workshop aims to promote collaboration between engineers and mathematicians to address the development, mathematical analysis, and application of meshfree and other state-of-the-art numerical methods for challenging engineering and scientific problems. In this workshop, several distinguished professors are invited to share their recent progress and development in advanced computational methods.

Organizers：Professor Pai-Chen Guan, Systems Engineering & Naval Architecture, NTOU
Professor Hsin-Yun Hu, Department of Mathematics, Tunghai University

Sponsor：National Science Council (NSC)

Agenda：

Time	Speakers & Titles
13:30~13:40	Opening
13:40~14:20	Speaker：**J.S. Chen**, *Chancellor's Professor, Distinguished Professor, UCLA* Title：Stabilized Meshfree Methods: Theory and Applications
14:20~14:25	Tea Break

14:25~15:05	Speaker：**J.T. Chen**, *Life Time Distinguished Professor, NTOU, Editor of EABE Journal*
	Title：Recent Development of Null-Field BIEM
15:05~15:10	Tea Break
15:10~15:50	Speaker：**C.S. Liu**, *Distinguished Professor, NTU*
	Title：A Residual-Norm Based Algorithm and Modified Polynomial Expansion Method for Nonlinear Problems
15:50~15:55	Tea Break
15:55~16:35	Speaker：**W. Yeih**, *Professor, Director of Computation and Simulation Center, NTOU*
	Title：Direct Trefftz Boundary Element Method and its Applications in Mechanics and Materials
16:35~16:40	Tea Break
16:40~17:20	Speaker：**H.Y. Hu**, *Associate Professor, Tunghai University*
	Title：Strong and Weak Coupling of Finite Element and Reproducing Kernel Approximations
17:20~17:25	Tea Break
17:25~18:05	Speaker：**P.C. Guan**, *Assistant Professor, NTOU*
	Title：Reproducing Kernel Particle Method for Fragment-Impact Problems

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