

Plenary lectures on the most recent achievements in the computational methods related to the following fields of mechanics will be given by:

J.S. Chen, S.W. Chi, H.Y. Hu - ***Stabilized Galerkin and collocation meshfree methods***

G. Allaire, F. Jouve, G. Michailidis, - ***Recent advances in topological shape optimization by the Level Set Method***

T. Uhl - ***Inverse problem in structural damage identification and prediction***

G. Meschke, D. Leonhart, J.J. Timothy, M.M. Zhou - ***Computational mechanics of multiphase problems - Scale-bridging modeling strategies***

B. Schrefler, D. Boso, F. Pesavento, D. Gawin, M. Lefik - ***Mathematical and numerical multiscale modelling***

T.A. Kowalewski - ***Validation problems in computational fluid mechanics***