



Dr. Wing Kam Liu, Walter P. Murphy Professor at Northwestern University and Director of NSF Summer Institute on Nano Mechanics and Materials, received his Ph.D. from Caltech. Professor Wing Kam Liu has made extensive and far-reaching contributions to engineering and scientific simulation. He has developed new finite element methods, such as the Hughes-Liu shell, explicit-implicit methods and bridging scale methods, that have been implemented into many commercial and research codes, including the widely used programs ABAQUS, LS-DYNA and Tahoe. Recently, he spearheaded the development of meshless and multiscale methods, and developed new methods for applying quantum through continuum methods to design of high strength steels and cemented Carbide. Selected honors include the John von Neumann Medal from US Association of Computational Mechanics (USACM); the Robert Henry Thurston Lecture Award, the Gustus L. Larson Memorial Award, the Pi Tau Sigma Gold Medal and the Melville Medal, (all from ASME); and the Computational Mechanics Awards of the International Association of Computational Mechanics, USACM, and the Japanese Society of Mechanical Engineers; the Thomas J. Jaeger Prize by the International Association for Structural Mechanics in Reactor Technology; and the SAE Ralph R. Teeter Educational Award. Liu chaired the ASME Applied Mechanics Division and is past president of USACM. He is listed by the Institute for Scientific Information as one of the most highly cited researchers in engineering. He is the editor of two International Journals and honorary editor of two journals and has been a consultant for more than 20 governmental, national and international organizations.