Design of 3D Nanostructured Material systems for High-PerformanceNanocompositesand devices Speaker:

Because of their exceptional properties and unique structural configurations on nanostructures have been widely investigated for various higherformance applications during past two decadesheir potential applications as additional reinforcements in polymeric composites has been successfully demonstrated. On the other hand, laminated composites suffer firther lack of reinforcement in thickness direction and in between the laminae. Tinterlaminar properties are controlled by the matrix, yielding poor interlaminar and throughne-thickness properties. Our recent workhave shown that presence of arbon nandubes (CNT) can considerably enhance the properties of matrix material cand create nanocomposites with tunable properties and multifunctional havior. In this talk, synthesis and functionalization of CNT with various geometrical configuration will be discussed and their applications in design and fabrication of highly interlocked multifunctional nanocomposite materials systems with be explored.



Speaker BiographyDr. Davood Askathas worked in academia and industry as assistant professor, postdoc, researcher, and design engineesince 1996His researchexperienceincludes: (1) modeling, synthesis, functionalization, characterization applications of nanomaterials, nanostructures, (2) design, modeling, fabrication, and testing of mechanical systemshigh-performance composites, nanocomposites, thin films nanodevices and sensors His research efforts haveresulted innumber of awarded and pending international patents and research grants, and publication of journal articles, conference papers, and technical reports serves as reviewer, referee symposium organizer, session chair, and technical committee member for sevefaderal funding agencies, scientific journals; hnical conferences and professional societies.