

# Sectional Lectures

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Symbol	Title	Presenting Author
SL1	Multibody dynamics: bridging for multidisciplinary applications	Jorge Ambrosio
SL2	Rapid formation of strong gradients and diffusion in the transport of scalar and vector fields	Konrad Bajer
SL3	Near-critical point hydrodynamics and microgravity	Daniel A. Beysens
SL4	Suspensions: From Micromechanics to Macroscopic Behavior	John F. Brady
SL5	Nanoscale mechanics of biological materials	Huajian Gao
SL6	Variational and multiscale methods in turbulence	Thomas J. R. Hughes
SL7	Non-Newtonian fluid mechanics using molecular theory	Roland Keunings
SL8	Nonlinear dynamics in ocean engineering	Edwin Kreuzer
SL9	A bridge between the micro- and mesomechanics of laminates, fantasy or reality	Pierre J. Ladeveze
SL10	Turbulence and large-eddy simulations	Marcel Lesieur
SL11	Probability phenomena in perturbed dynamical systems	Anatoly Neishtadt
SL12	Mechanics of rubberlike solids	Raymond W. Ogden
SL13	Some issues in active vibration control of smart structures	Andre Preumont
SL14	Ocean circulation and its influence on climate	Peter B. Rhines

SL15 Microviscoelasticity of cells: cells as viscoplastic bodies Erich Sackmann

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SL16 Electrokinetics & electrohydrodynamics in microfluids D. A. Saville

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SL17 Problems in astrophysical fluid dynamics Edward Spiegel

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SL18 Scaling in quasi-2D turbulence experiments in a rotating flow Harry L. Swinney

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