

1125-VC-2841 **Manoj K Thapa*** (manoj.thapa@gsw.edu), School of Computing and Mathematics, Georgia Southwestern State University, Americus, GA 31709. *Numerical Study about the Origin of the Flow Chaos in Late Boundary Layer Transition.*

The transition process from laminar to turbulent flow in boundary layers is a fundamental problem in modern fluid mechanic. It has been the subject of intense research for over a century due to its great importance to various engineering applications. Our current understanding of the problem is far from complete. In this paper we will discuss recent Direct Numerical Simulation (DNS) results on the nature of late flow transition. Preliminary observations from our current project on mechanism of flow chaos in late boundary transition also will be briefly highlighted. (Received September 20, 2016)