1085-76-223   **Wenbo Tang*** (`wenbo.tang@asu.edu`), PSA837, School of Mathematical & Statistical Sciences, Arizona State University, Tempe, AZ 85296, and **PW Chan** and **George Haller**. *Advances in airflow hazard detection at the Hong Kong International Airport.*

In recent years, characterization of flow coherent structures via dynamical systems methods has been popularized by the development of extracting finite-time invariant manifolds in aperiodic flow data. In this talk, I will discuss the series of developments around conforming the mathematical tools to detect air flow hazards at the Hong Kong International Airport. (Received September 10, 2012)