

SAN DIEGO STATE UNIVERSITY DEPARTMENT OF PHYSICS AND DEPARTMENT OF
ASTRONOMY COLLOQUIUM

Speaker: Dr. Schuyler Van Dyk (Infrared Processing and Analysis
Center/California Institute of Technology)

Topic: Supernova Progenitors and Their Binary Companions

Time: 3:00 PM, Friday, June 17, 2016 (refreshments served at 2:45 PM)

Place: Room 215, Physics-Astronomy Building (PA-215)

Abstract:

Supernovae have profound influence on the evolution of their host galaxies. It is absolutely essential to determine the stellar origins of supernovae, i.e., their progenitors or progenitor systems. I will briefly review what we know about the progenitors of supernovae from their direct identification in high spatial resolution pre-explosion images, primarily obtained with the Hubble Space Telescope. I will also touch on recent attempts to recover a surviving companion in core-collapse progenitor binary systems, particularly for the stripped-envelope supernovae, and the implications from these searches.