

**Space Science Seminar**  
**Tuesday, 2014 April 15 10:30am**  
**NSSTC/2096**

**Spectacular Star-Birth in the Orion Nebula Discovered  
with the HST**

Prof. C. Robert O'Dell/Vanderbilt University

The HST is about to celebrate its 24th anniversary and throughout its life the Orion Nebula and its associated star cluster has been the subject of many research projects. Even in the dark days before the first servicing mission we were able to make important discoveries and things only became better with the advent of a series of cameras internally corrected for the errors in the shape of the primary mirror.

Through clever data processing by the Space Telescope Science Institute it has become possible to closely match the earliest and most recent images. This has opened the possibility to study how mass loss behaves in stars as they are forming. I'll summarize the accepted state of knowledge and present the most recent results for these gentle expulsions and how this allows proto-stars to become stars, complete with protoplanetary disks.

Prof. C. Robert O'Dell was the former Project Scientist for HST.

<http://solarscience.msfc.nasa.gov/SpaceScienceSeminars.html>